BRADY
WHEN PERFORMANCE MATTERS MOST™

BBP®33
SIGN & LABEL PRINTER
User's Manual

This page is intentionally left blank.

Copyright and Trademarks

Disclaimer

This manual is proprietary to **Brady** Worldwide, Inc. (hereafter "**Brady**"), and may be revised from time to time without notice. **Brady** disclaims any understanding to provide you with such revisions, if any.

This manual is copyrighted with all rights reserved. No portion of this manual may be copied or reproduced by any means without the prior written consent of **Brady**.

While every precaution has been taken in the preparation of this document, **Brady** assumes no liability to any party for any loss or damage caused by errors or omissions or by statements resulting from negligence, accident, or any other cause. **Brady** further assumes no liability arising out of the application or use of any product or system described, herein; nor any liability for incidental or consequential damages arising from the use of this document. **Brady** disclaims all warranties of merchantability of fitness for a particular purpose.

Brady reserves the right to make changes without further notice to any product or system described herein to improve reliability, function, or design.

Trademarks

BBP®33 is a registered trademark of **Brady** Worldwide, Inc.

Microsoft, Windows, Excel, Access and SQL Server are registered trademarks of Microsoft Corporation.

Lotus 1-2-3 is a registered trademark of Lotus Development Corporation.

All brand or product names referenced in this manual are trademarks (™) or registered trademarks (®) of their respective companies or organizations.

© 2012 **Brady Corporation**. All Rights Reserved.

Y1422731
Revision B

Brady Corporation
6555 West Good Hope Road
P.O. Box 2131
Milwaukee, WI 53201-2131
www.bradycorp.com

Sales/Customer Support: (800) 537-8791

Brady Warranty

Our products are sold with the understanding that the buyer will test them in actual use and determine for him or herself their adaptability to his/her intended uses. Brady warrants to the buyer that its products are free from defects in material and workmanship, but limits its obligation under this warranty to replacement of the product shown to Brady's satisfaction to have been defective at the time Brady sold it. This warranty does not extend to any persons obtaining the product from the buyer.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND OF ANY OTHER OBLIGATIONS OR LIABILITY ON BRADY'S PART. UNDER NO CIRCUMSTANCES WILL BRADY BE LIABLE FOR ANY LOSS, DAMAGE, EXPENSE OR CONSEQUENTIAL DAMAGES OF ANY KIND ARISING IN CONNECTION WITH THE USE, OR INABILITY TO USE, BRADY'S PRODUCTS.

BBP®33 Agency Compliance and Approvals

United States

FCC Notice-US Only

Warning: This equipment generates, uses and can radiate radio frequency energy. If not installed and used in accordance with the manufacturer's instructions, it may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart B of Part 15 of the FCC rules, which are designed to provide reasonable protection against interference when operating in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case required corrective measures will be at the owner's expense. The user is cautioned that any changes or modifications not expressly approved by Brady Worldwide, Inc. could void the user's authority to use the equipment.

Canada

ICES-003 Class A Notice, Classe A

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numerique de la classe A respecte toutes les exigences du Reglement sur le material broilleur du Canada.

Europe

Warning – This is a Class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

RoHS Directive 2002/95/EC

This statement clarifies **Brady's** product compliance with the European Union's Directive 2002/95/EC, Restriction of Hazardous Substances.

Brady Network Card Compliance and Approvals

Warranty

1 year from the date of purchase. Terms and conditions apply. Refer the printer manual for more details.

Garantía

1 año a partir el día de la compra. Se aplican términos y condiciones. Consulte el manual de la impresora para obtener más detalles.

Regulatory Compliance and Safety

Bluetooth, Health and Authorization for use

Radio frequency electromagnetic energy is emitted from Bluetooth devices. The energy levels of these emissions however are far less than the electromagnetic energy emissions from wireless devices such as mobile phones. Bluetooth devices are safe for use frequency safety standards and recommendations. The use of Bluetooth devices may be restricted in some situations or environments for example:

- On board of airplanes, or
- ·In an explosive environment, or
- ·In case the interference risk to other devices or services is perceived or identified as harmful

In case the policy regarding the use of Bluetooth devices in specific organizations or environments (e.g. airports, hospitals, chemical/oil/gas industrial plants, private buildings etc.) is not clear, please ask for authorization to use these devices prior to operating the equipment.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

Cumplimiento normativo y seguridad

Funcionamiento y autorización para uso de BLUETOOTH inalámbrica

Los dispositivos BLUETOOTH inalámbricos emiten energía de radiofrecuencia electromagnética. Sin embargo, los niveles de energía de estas emisiones son mucho menores a las emisiones de energía electromagnética de los dispositivos inalámbricos como los teléfonos. Los dispositivos BLUETOOTH inalámbricos son seguros para usar estándares y recomendaciones de seguridad de frecuencia. El uso de dispositivos BLUETOOTH inalámbricos puede ser restringido en algunas situaciones o entornos, por ejemplo:

- A bordo de aviones o
- En un ambiente explosivo o
- En caso de que se perciba o se identifique como perjudicial el riesgo de interferencia con otros dispositivos o servicios.

En caso de que la política en cuanto al uso de dispositivos BLUETOOTH inalámbricos en organizaciones o entornos específicos (como aeropuertos, hospitales, plantas industriales químicas, petroleras o de gas, edificios privados, etc.) no esté clara, solicite autorización para el uso de los dispositivos antes de utilizar el equipamiento.

La disponibilidad de algunos canales específicos y/o bandas de frecuencia operativa depende del país, y el firmware se programa en la fábrica para que coincida con el destino meta. El usuario final no puede acceder a la configuración de firmware.

Safety Notices

- Do not use this product near water, for example, in a wet basement or near a swimming pool.
- Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

Indicaciones de seguridad

- No utilice este producto cerca del agua, por ejemplo, en una superficie húmeda o cerca de una piscina.
- Evite utilizar el producto durante una tormenta eléctrica. Puede haber un riesgo remoto de descarga eléctrica de un rayo.

Regulatory Information/disclaimers

The installation and use of this Bluetooth device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The Manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device. The Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from the failure to comply with these guidelines.

Información regulatoria/extensiones de responsabilidad

La instalación y el uso de este dispositivo BLUETOOTH inalámbrico debe estar estrictamente de acuerdo con las instrucciones incluidas en la documentación del usuario proporcionada con el producto. Todos los cambios o modificaciones que se realicen a este dispositivo que no sean expresamente aprobadas por el fabricante pueden anular la autoridad del usuario para utilizar el equipo. El Fabricante no es responsable por interferencias de radio o televisión que puedan ocasionarse debido a una modificación no autorizada de este dispositivo. El Fabricante y sus revendedores autorizados o distribuidores no contraerán obligación alguna por el daño o la violación de las regulaciones gubernamentales que puedan surgir de la falta de cumplimiento de estas guías.

United States

Estados Unidos

Export restrictions

This product contains encryption. It is unlawful to export out of the U.S. without obtaining a U.S. Export License.

Restricciones de exportación

Este producto contiene encriptación. La exportación fuera de los Estados Unidos sin obtener la Licencia de Exportación correspondiente es ilegal.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

La radiación de la FCC Declaración de exposición:

Este equipamiento cumple con los límites de exposición a la radiación de la FCC que se establecen para un entorno no controlado. Este equipo debe ser instalado y operado con un mínimo de 20 cm de distancia entre el radiador y su cuerpo.

Este transmisor no debe estar colocado o funcionando en conjunto con otra antena o transmisor.

FCC Part 15 Verification and Certification Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Parte 15 de las FCC, Declaración de verificación

Este dispositivo cumple con la Parte 15 de las Reglas FCC. El funcionamiento está sujeto a estas dos condiciones: (1) Este dispositivo puede no causar interferencia perjudicial y (2) este dispositivo puede aceptar cualquier interferencia que reciba, incluso interferencias que pueden causar un funcionamiento no deseado.

FCC Class B Notice

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult a dealer or an experienced radio/television technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Aviso de clase B de la FCC

Note: Este equipamiento ha sido probado y cumple con los límites de un dispositivo digital Clase B, conforme a la Parte 15 de las reglas FCC. Estos límites están designados para proporcionar una protección razonable contra la interferencia perjudicial en una instalación residencial. El equipo genera, utiliza y puede emitir energía de radiofrecuencia y, si no se instala y utiliza de acuerdo con las instrucciones, puede causar interferencia perjudicial en las radiocomunicaciones. Sin embargo, no se puede garantizar que no haya interferencia en una instalación en particular. Si este equipo causa interferencia perjudicial a una recepción de radio o televisión, que se puede determinar encendiendo y apagando el equipo, el usuario puede intentar corregir la interferencia con una o más de las siguientes medidas:

- Reorientar o reubicar la antena receptora.
- Aumentar la separación entre el equipo y el receptor.
- Conectar el equipo a una salida de un circuito distinto al que está conectado el receptor.
- Consultar con un distribuidor o un técnico con experiencia en radio/televisión para obtener ayuda.

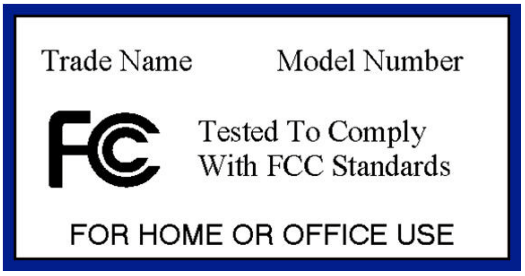
Advertencia de la FCC: Todos los cambios o modificaciones que no estén aprobados expresamente por la parte responsable del cumplimiento normativo pueden anular la autoridad del usuario para utilizar este equipo.

Declaration of Conformity

MANUFACTURER'S DECLARATION OF CONFORMITY

Brady Corporation
6555 West Good Hope Road
P.O. Box 2131
Milwaukee, WI 53201
Main Switchboard: (800) 541-1686
(414) 358-6600
Fax: (800) 292-2289
Sales/Customer Support: (800) 537-8791

Declares that the Product:
Date: dd mmm yyyy
Brand Name: Brady Corporation
Model Number: xxxxxxxx
Equipment Type: xxxxxxxxxxxxxx



Canada ICES-003 Class B Notice

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

IC Radiation Exposure Statement:This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This Class [B] digital apparatus complies with Canadian ICES-003.Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada.

Canadá ICES-003 Clase B Aviso

Este dispositivo cumple con la norma canadiense RSS exentos de licencia (s). La operación está sujeta a las siguientes dos condiciones: (1) este dispositivo no puede causar interferencias perjudiciales y (2) este dispositivo debe aceptar cualquier interferencia, incluyendo interferencia que pueda causar un funcionamiento no deseado del dispositivo.

IC Exposición a la Radiación: Este equipo cumple con CI exposición a la radiación RSS-102 límites establecidos para un entorno no controlado. Este equipo debe ser instalado y operado con un mínimo de 20 cm de distancia entre el radiador y su cuerpo.

Esta clase [B] aparato digital cumple con la norma ICES-003.Cet appareil numérique de la classe [B] est conforme "à la norme NMB-003 du Canadá.

IMPORTANT NOTE

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with IC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

REMARQUE IMPORTANTE

Exposition aux radiofréquences :

Ce matériel est conforme aux limites d’exposition aux radiofréquences établies pour un environnement non contrôlé. Pour assurer le maintien de cette conformité, l’utilisateur doit suivre les consignes d’utilisation décrites dans le présent manuel.

Wireless Disclaimer

The maximum performance for wireless is derived from Bluetooth 2.0 specifications. Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage. Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

Avis de non-responsabilité concernant les appareils sans fil

Les performances maximales pour les réseaux sans fil sont tirées des spécifications de la norme IEEE 802.11. Les performances réelles peuvent varier, notamment en fonction de la capacité du réseau sans fil, du débit de la transmission de données, de la portée et de la couverture. Les performances dépendent de facteurs, conditions et variables multiples, en particulier de la distance par rapport au point d'accès, du volume du trafic réseau, des matériaux utilisés dans le bâtiment et du type de construction, du système d'exploitation et de la combinaison de produits sans fil utilisés, des interférences et de toute autre condition défavorable.

EU Declaration of Conformity

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

- EN 60950-1: 2006
  Safety of Information Technology Equipment
- EN 300 328 V1.7.1: (2006-10)
  Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
- EN 301 489-1 V1.8.1: (2008-04)
  Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements
- EN 301 489-17 V1.3.2 (2008-04)
  Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

CE 0560 ①

BU - Бълграски [Bulgarian]	Това оборудване отговаря на съществените изисквания и приложими клаузи на Директива 1999/5/EC.
CS - Česky [Czech]	*[Jméno výrobce]* tímto prohlašuje, že tento *[typ zařízení]* je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
DA - Dansk [Danish]	Undertegnede *[fabrikantens navn]* erklærer herved, at følgende udstyr *[udstyrets typebetegnelse]* overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
DE - Deutsch [German]	Hiermit erklärt *[Name des Herstellers]*, dass sich das Gerät *[Gerätetyp]* in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
EE - Eesti [Estonian]	Käesolevaga kinnitab *[tootja nimi = name of manufacturer]* seadme *[seadme tüüp = type of equipment]* vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
EN - English	Hereby, *[name of manufacturer]*, declares that this *[type of equipment]* is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
ES - Español [Spanish]	Por medio de la presente *[nombre del fabricante]* declara que el *[clase de equipo]* cumple con los requisitos esenciales y cualquier otra disposición aplicable o exigible de la Directiva 1999/5/CE.
EL - Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ [name of manufacturer] ΔΗΛΩΝΕΙ ΟΤΙ [type of equipment] ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.

FR - Français [French]	Par la présente *[nom du fabricant]* déclare que l'appareil *[type d'appareil]* est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
Íslenska [Icelandic]	Þetta tæki er samkvæmt grunnkröfum og öðrum viðeigandi ákvæðum Tilskipunar 1999/5/EC.
IT - Italiano [Italian]	Con la presente *[nome del costruttore]* dichiara che questo *[tipo di apparecchio]* è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
LV - Latviski [Latvian]	Ar šo *[name of manufacturer / izgatavotāja nosaukums]* deklarē, ka *[type of equipment / iekārtas tips]* atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
LT - Lietuvių [Lithuanian]	Šiuo *[manufacturer name]* deklaruoja, kad šis *[equipment type]* atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
NL - Nederlands [Dutch]	Hierbij verklaart *[naam van de fabrikant]* dat het toestel *[type van toestel]* in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
MT - Malti [Maltese]	Hawnhekk, *[isem tal-manifattur]*, jiddikjara li dan *[il-mudel tal-prodott]* jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
HU - Magyar [Hungarian]	Alulírott, *[gyártó neve]* nyilatkozom, hogy a *[... típus]* megfelel a vonatkozó alapvetõ követelményeknek és az 1999/5/EC irányelv egyéb elõírásainak.
NO - Norsk [Norwegian]	Dette utstyret er i samsvar med de grunnleggende krav og andre relevante bestemmelser i EU-direktiv 1999/5/EF.
PL - Polski [Polish]	Niniejszym *[nazwa producenta]* oświadcza, że *[nazwa wyrobu]* jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
PT - Português [Portuguese]	*[Nome do fabricante]* declara que este *[tipo de equipamento]* está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
SL - Slovensko [Slovenian]	*[Ime proizvajalca]* izjavlja, da je ta *[tip opreme]* v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
SK - Slovensky [Slovak]	*[Meno výrobcu]* týmto vyhlasuje, že *[typ zariadenia]* spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
FI - Suomi [Finnish]	*[Valmistaja = manufacturer]* vakuuttaa täten että *[type of equipment = laitteen tyyppimerkintä]* tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
SV - Svenska [Swedish]	Härmed intygar *[företag]* att denna *[utrustningstyp]* står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

National Restrictions

This product may be used in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Ce produit peut être utilisé dans tous les pays de l'UE (et dans tous les pays ayant transposés la directive 1999/5/CE) sans aucune limitation, excepté pour les pays mentionnés cidessous:

Questo prodotto è utilizzabile in tutte i paesi EU (ed in tutti gli altri paesi che seguono le direttive EU 1999/5/EC) senza nessuna limitazione, eccetto per i paesi menzionati di seguito:

Das Produkt kann in allen EU Staaten ohne Einschränkungen eingesetzt werden (sowie in anderen Staaten die der EU Direktive 1999/5/CE folgen) mit Außnahme der folgenden aufgeführten Staaten:

France

For 2,4 GHz, outdoor operation is limited to 10mW on channels 8-13(2454 - 2483,5 MHz). There are no restrictions when used in other parts of the 2,4 GHz band when used indoors.

L'utilisation en extérieur en 2,4 GHz est limitée à 10 mW sur les canaux 8-13 (2454 - 2483,5 MHz). Il n'y a pas de limitations sur le reste de la bande 2,4 GHz en utilisation intérieure

Italy

This product meets the National Radio Interface and the requirements specified in the National Frequency Allocation Table for Italy. Unless this Bluetooth product is operating within the boundaries of the owner's property, its use requires a "general authorization". Please check http://www.comunicazioni.it/it/ for more details.

Questo prodotto è conforme alla specifiche di Interfaccia Radio Nazionali e rispetta il Piano Nazionale di ripartizione delle frequenze in Italia. Se non viene installato all'interno del proprio fondo, l'utilizzo di prodotti Bluetooth a 2,4 GHz richiede una "Autorizzazione Generale". Consultare http://www.comunicazioni.it/it/ per maggiori dettagli.

Latvia

- The outdoor usage of the 2,4 GHz band requires an authorization from the Electronic Communications Office. Please check http://www.esd.lv for more details.
- 2,4 GHz frekveču joslas izmantošanai ārpus telpām nepieciešama atļauja no Elektronisko sakaru direkcijas. Vairāk informācijas: http://www.esd.lv.

Notes:

1. Although Norway, Switzerland and Liechtenstein are not EU member states, the EU Directive 1999/5/EC has also been implemented in those countries.
2. The regulatory limits for maximum output power are specified in EIRP. The EIRP level of a device can be calculated by adding the gain of the antenna used (specified in dBi) to the output power available at the connector (specified in dBm).

Waste Electrical and Electronic Equipment Directive

In accordance with the European WEEE Directive, this device needs to be recycled in accordance with local regulations.

English - Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

Български (Bulgarian) - Информация относно опазването на околната среда за потребители в Европейския съюз

Европейска директива 2002/96/ЕС изисква уредите, носещи този символ върху изделието и/или опаковката му, да не се изхвърля т с несортирани битови отпадъци. Символът обозначава, че изделието трябва да се изхвърля отделно от сметосъбирането на обикновените битови отпадъци. Ваша е отговорността този и другите електрически и електронни уреди да се изхвърлят в предварително определени от държавните или общински органи специализирани пунктове за събиране. Правилното изхвърляне и рециклиране ще спомогнат да се предотвратят евентуални вредни за околната среда и здравето на населението последствия. За по-подробна информация относно изхвърлянето на вашите стари уреди се обърнете към местните власти, службите за сметосъбиране или магазина, от който сте закупили уреда.

Čeština (Czech) - Informace o ochraně životního prostředí pro zákazníky v zemích Evropské unie

Evropská směrnice 2002/96/ES zakazuje, aby zařízení označené tímto symbolem na produktu anebo na obalu bylo likvidováno s netříděným komunálním odpadem. Tento symbol udává, že daný produkt musí být likvidován odděleně od běžného komunálního odpadu. Odpovídáte za likvidaci tohoto produktu a dalších elektrických a elektronických zařízení prostřednictvím určených sběrných míst stanovených vládou nebo místními úřady. Správná likvidace a recyklace pomáhá předcházet potenciálním negativním dopadům na životní prostředí a lidské zdraví. Podrobnější informace o likvidaci starého vybavení si laskavě vyžádejte od místních úřadů, podniku zabývajícího se likvidací komunálních odpadů nebo obchodu, kde jste produkt zakoupili.

Dansk (Danish) - Miljøinformation for kunder i EU

EU-direktiv 2002/96/EF kræver, at udstyr der bærer dette symbol på produktet og/eller emballagen ikke må bortskaffes som usorteret kommunalt affald. Symbolet betyder, at dette produkt skal bortskaffes adskilt fra det almindelige husholdningsaffald. Det er dit ansvar at bortskaffe dette og andet elektrisk og elektronisk udstyr via bestemte indsamlingssteder udpeget af staten eller de lokale myndigheder. Korrekt bortskaffelse og genvinding vil hjælpe med til at undgå mulige skader for miljøet og menneskers sundhed. Kontakt venligst de lokale myndigheder, renovationstjenesten eller den butik, hvor du har købt produktet, angående mere detaljeret information om bortskaffelse af dit gamle udstyr.

Deutsch (German) - Umweltinformation für Kunden innerhalb der Europäischen Union

Die Europäische Richtlinie 2002/96/EC verlangt, dass technische Ausrüstung, die direkt am Gerät und/oder an der Verpackung mit diesem Symbol versehen ist , nicht zusammen mit unsortiertem Gemeindeabfall entsorgt werden darf. Das Symbol weist darauf hin, dass das Produkt von regulärem Haushaltmüll getrennt entsorgt werden sollte. Es liegt in Ihrer Verantwortung, dieses Gerät und andere elektrische und elektronische Geräte über die dafür zuständigen und von der Regierung oder örtlichen Behörden dazu bestimmten Sammelstellen zu entsorgen. Ordnungsgemäßes Entsorgen und Recyceln trägt dazu bei, potentielle negative Folgen für Umwelt und die menschliche Gesundheit zu vermeiden. Wenn Sie weitere Informationen zur Entsorgung Ihrer Altgeräte benötigen, wenden Sie sich bitte an die örtlichen Behörden oder städtischen Entsorgungsdienste oder an den Händler, bei dem Sie das Produkt erworben haben. Appendix D Regulatory Information Compact Bluetooth USB Adapter 21

Eesti (Estonian) - Keskkonnaalane informatsioon Euroopa Liidus asuvatele klientidele

Euroopa Liidu direktiivi 2002/96/EÜ nõuete kohaselt on seadmeid, millel on tootel või pakendil käesolev sümbol , keelatud kõrvaldada koos sorteerimata olmejäätmetega. See sümbol näitab, et toode tuleks kõrvaldada eraldi tavalistest olmejäätmevoogudest. Olete kohustatud kõrvaldama käesoleva ja ka muud elektri- ja elektroonikaseadmed riigi või kohalike ametiasutuste poolt ette nähtud kogumispunktide kaudu. Seadmete korrektne kõrvaldamine ja ringlussevõtt aitab vältida võimalikke negatiivseid tagajärgi keskkonnale ning inimeste tervisele. Vanade seadmete kõrvaldamise kohta täpsema informatsiooni saamiseks võtke palun ühendust kohalike ametiasutustega, jäätmekäitlusfirmaga või kauplusega, kust te toote ostsite.

Español (Spanish) - Información medioambiental para clientes de la Unión Europea

La Directiva 2002/96/CE de la UE exige que los equipos que lleven este símbolo en el propio aparato y/o en su embalaje no deben eliminarse junto con otros residuos urbanos no seleccionados. El símbolo indica que el producto en cuestión debe separarse de los residuos domésticos convencionales que se vayan a desechar. Es responsabilidad suya desechar este y cualquier otro aparato eléctrico y electrónico a través de los puntos de recolección que ponen a su disposición el gobierno y las autoridades locales. Al desechar y reciclar correctamente estos aparatos estará contribuyendo a evitar posibles consecuencias negativas para el medio ambiente y la salud de las personas. Si desea obtener información más detallada sobre la eliminación segura de su aparato usado, consulte a las autoridades locales, al servicio de recolección y eliminación de residuos de su zona o pregunte en la tienda donde adquirió el producto.

Ελληνικά (Greek) - Στοιχεία περιβαλλοντικής προστασίας για πελάτες εντός της Ευρωπαϊκής Ένωσης

Σύμφωνα με την Κοινοτική Οδηγία 2002/96/EC, ο εξοπλισμός που φέρει αυτό το σύμβολο στο προϊόν ή/και τη συσκευασία του δεν πρέπει να απορρίπτεται μαζί με τα μη διαχωρισμένα αστικά απορρίμματα. Το σύμβολο υποδεικνύει ότι αυτό το προϊόν θα πρέπει να απορρίπτεται ξεχωριστά από τα συνήθη οικιακά απορρίμματα. Είστε υπεύθυνος για την απόρριψη του παρόντος και άλλου ηλεκτρικού και ηλεκτρονικού εξοπλισμού μέσω των καθορισμένων εγκαταστάσεων συγκέντρωσης απορριμμάτων, οι οποίες ορίζονται από το κράτος ή τις αρμόδιες τοπικές αρχές. Η σωστή απόρριψη και ανακύκλωση συμβάλλει στην πρόληψη ενδεχόμενων αρνητικών επιπτώσεων στο περιβάλλον και την υγεία. Για περισσότερες πληροφορίες σχετικά με την απόρριψη του παλαιού σας εξοπλισμού, επικοινωνήστε με τις τοπικές αρχές, τις υπηρεσίες αποκομιδής απορριμμάτων ή το κατάστημα από το οποίο αγοράσατε το προϊόν.

Français (French) - Informations environnementales pour les clients de l’Union européenne

La directive européenne 2002/96/CE exige que l’équipement sur lequel est apposé ce symbole sur le produit et/ou son emballage ne soit pas jeté avec les autres ordures ménagères. Ce symbole indique que le produit doit être éliminé dans un circuit distinct de celui pour les déchets des ménages. Il est de votre responsabilité de jeter ce matériel ainsi que tout autre matériel électrique ou électronique par les moyens de collecte indiqués par le gouvernement et les pouvoirs publics des collectivités territoriales. L’élimination et le recyclage en bonne et due forme ont pour but de lutter contre l’impact néfaste potentiel de ce type de produits sur l’environnement et la santé publique. Pour plus d’informations sur le mode d’élimination de votre ancien équipement, veuillez prendre contact avec les pouvoirs publics locaux, le service de traitement des déchets, ou l’endroit où vous avez acheté le produit.

Italiano (Italian) - Informazioni relative all’ambiente per i clienti residenti nell’Unione Europea

La direttiva europea 2002/96/EC richiede che le apparecchiature contrassegnate con questo simbolo sul prodotto e/o sull’imballaggio non siano smaltite insieme ai rifiuti urbani non differenziati. Il simbolo indica che questo prodotto non deve essere smaltito insieme ai normali rifiuti domestici. È responsabilità del proprietario smaltire sia questi prodotti sia le altre apparecchiature elettriche ed elettroniche mediante le specifiche strutture di raccolta indicate dal governo o dagli enti pubblici locali. Il corretto smaltimento ed il riciclaggio aiuteranno a prevenire conseguenze potenzialmente negative per l’ambiente e per la salute dell’essere umano. Per ricevere informazioni più dettagliate circa lo smaltimento delle vecchie apparecchiature in Vostro possesso, Vi invitiamo a contattare gli enti pubblici di competenza, il servizio di smaltimento rifiuti o il negozio nel quale avete acquistato il prodotto.

Latviešu valoda (Latvian) - Ekoloģiska informācija klientiem Eiropas Savienības jurisdikcijā

Direktīvā 2002/96/EK ir prasība, ka aprīkojumu, kam pievienota zīme uz paša izstrādājuma vai uz tā iesaiņojuma, nedrīkst izmest nešķirotā veidā kopā ar komunālajiem atkritumiem (tiem, ko rada vietēji iedzīvotāji un uzņēmumi). Šī zīme nozīmē to, ka šī ierīce ir jāizmet atkritumos tā, lai tā nenonāktu kopā ar parastiem mājsaimniecības atkritumiem. Jūsu pienākums ir šo un citas elektriskas un elektroniskas ierīces izmest atkritumos, izmantojot īpašus atkritumu savākšanas veidus un līdzekļus, ko nodrošina valsts un pašvaldību iestādes. Ja izmešana atkritumos un pārstrāde tiek veikta pareizi, tad mazinās iespējamais kaitējums dabai un cilvēku veselībai. Sīkākas ziņas par novecojuša aprīkojuma izmešanu atkritumos jūs varat saņemt vietējā pašvaldībā, atkritumu savākšanas dienestā, kā arī veikalā, kur iegādājāties šo izstrādājumu.

Lietuvškai (Lithuanian) - Aplinkosaugos informacija, skirta Europos Sąjungos vartotojams

Europos direktyva 2002/96/EC numato, kad įrangos, kuri ir kurios pakuotė yra pažymėta šiuo simboliu (įveskite simbolį), negalima šalinti kartu su nerūšiuotomis komunalinėmis atliekomis. Šis simbolis rodo, kad gaminį reikia šalinti atskirai nuo bendro buitinių atliekų srauto. Jūs privalote užtikrinti, kad ši ir kita elektros ar elektroninė įranga būtų šalinama per tam tikras nacionalinės ar vietinės valdžios nustatytas atliekų rinkimo sistemas. Tinkamai šalinant ir perdirbant atliekas, bus išvengta galimos žalos aplinkai ir žmonių sveikatai. Daugiau informacijos apie jūsų senos įrangos šalinimą gali pateikti vietinės valdžios institucijos, atliekų šalinimo tarnybos arba parduotuvės, kuriose įsigijote tą gaminį.

Malti (Maltese) - Informazzjoni Ambjentali għal Klijenti fl-Unjoni Ewropea

Id-Direttiva Ewropea 2002/96/KE titlob li t-tagħmir li jkun fih issimbolu fuq il-prodott u/jew fuq l-ippakkjar ma jistax jintrema ma' skart muniċipali li ma ġiex isseparat. Is-simbolu jindika li dan il-prodott għandu jintrema separatament minn ma' liskart domestiku regolari. Hija responsabbiltà tiegħek li tarmi dan it-tagħmir u kull tagħmir ieħor ta' l-elettriku u elettroniku permezz ta' faċilitajiet ta' ġbir appuntati apposta mill-gvern jew mill-awtoritajiet lokali. Ir-rimi b'mod korrett u r-riċiklaġġ jgħin jipprevjeni konsegwenzi negattivi potenzjali għall-ambjent u għas-saħħa tal-bniedem. Għal aktar informazzjoni dettaljata dwar ir-rimi tat-tagħmir antik tiegħek, jekk jogħġbok ikkuntattja lill-awtoritajiet lokali tiegħek, is-servizzi għar-rimi ta' l-iskart, jew il-ħanut minn fejn xtrajt il-prodott.

Magyar (Hungarian) - Környezetvédelmi információ az európai uniós vásárlók számára

A 2002/96/EC számú európai uniós irányelv megkívánja, hogy azokat a termékeket, amelyeken, és/vagy amelyek csomagolásán az alábbi címke megjelenik, tilos a többi szelektálatlan lakossági hulladékkal együtt kidobni. A címke azt jelöli, hogy az adott termék kidobásakor a szokványos háztartási hulladékelszállítási rendszerektõl elkülönített eljárást kell alkalmazni. Az Ön felelõssége, hogy ezt, és más elektromos és elektronikus berendezéseit a kormányzati vagy a helyi hatóságok által kijelölt gyűjtõredszereken keresztül számolja fel. A megfelelõ hulladékfeldolgozás segít a környezetre és az emberi egészségre potenciálisan ártalmas negatív hatások megelõzésében. Ha elavult berendezéseinek felszámolásához további részletes információra van szüksége, kérjük, lépjen kapcsolatba a helyi hatóságokkal, a hulladékfeldolgozási szolgálattal, vagy azzal üzlettel, ahol a terméket vásárolta.

Nederlands (Dutch) - Milieu-informatie voor klanten in de Europese Unie

De Europese Richtlijn 2002/96/EC schrijft voor dat apparatuur die is voorzien van dit symbool op het product of de verpakking, niet mag worden ingezameld met niet-gescheiden huishoudelijk afval. Dit symbool geeft aan dat het product apart moet worden ingezameld. U bent zelf verantwoordelijk voor de vernietiging van deze en andere elektrische en elektronische apparatuur via de daarvoor door de landelijke of plaatselijke overheid aangewezen inzamelingskanalen. De juiste vernietiging en recycling van deze apparatuur voorkomt mogelijke negatieve gevolgen voor het milieu en de gezondheid. Voor meer informatie over het vernietigen van uw oude apparatuur neemt u contact op met de plaatselijke autoriteiten of afvalverwerkingsdienst, of met de winkel waar u het product hebt aangeschaft.

Norsk (Norwegian) - Miljøinformasjon for kunder i EU

EU-direktiv 2002/96/EF krever at utstyr med følgende symbol avbildet på produktet og/eller pakningen, ikke må kastes sammen med usortert avfall. Symbolet indikerer at dette produktet skal håndteres atskilt fra ordinær avfallsinnsamling for husholdningsavfall. Det er ditt ansvar å kvitte deg med dette produktet og annet elektrisk og elektronisk avfall via egne innsamlingsordninger slik myndighetene eller kommunene bestemmer. Korrekt avfallshåndtering og gjenvinning vil være med på å forhindre mulige negative konsekvenser for miljø og helse. For nærmere informasjon om håndtering av det kasserte utstyret ditt, kan du ta kontakt med kommunen, en innsamlingsstasjon for avfall eller butikken der du kjøpte produktet.

Polski (Polish) - Informacja dla klientów w Unii Europejskiej o przepisach dotyczących ochrony środowiska

Dyrektywa Europejska 2002/96/EC wymaga, aby sprzęt oznaczony symbolem znajdującym się na produkcie i/lub jego opakowaniu nie był wyrzucany razem z innymi niesortowanymi odpadami komunalnymi. Symbol ten wskazuje, że produkt nie powinien być usuwany razem ze zwykłymi odpadami z gospodarstw domowych. Na Państwu spoczywa obowiązek wyrzucania tego i innych urządzeń elektrycznych oraz elektronicznych w punktach odbioru wyznaczonych przez władze krajowe lub lokalne. Pozbywanie się sprzętu we właściwy sposób i jego recykling pomogą zapobiec potencjalnie negatywnym konsekwencjom dla środowiska i zdrowia ludzkiego. W celu uzyskania szczegółowych informacji o usuwaniu starego sprzętu, prosimy zwrócić się do lokalnych władz, służb oczyszczania miasta lub sklepu, w którym produkt został nabyty.

Português (Portuguese) - Informação ambiental para clientes da União Europeia

A Directiva Europeia 2002/96/CE exige que o equipamento que exibe este símbolo no produto e/ou na sua embalagem não seja eliminado junto com os resíduos municipais não separados. O símbolo indica que este produto deve ser eliminado separadamente dos resíduos domésticos regulares. É da sua responsabilidade eliminar este e qualquer outro equipamento eléctrico e electrónico através das instalações de recolha designadas pelas autoridades governamentais ou locais. A eliminação e reciclagem correctas ajudarão a prevenir as consequências negativas para o ambiente e para a saúde humana. Para obter informações mais detalhadas sobre a forma de eliminar o seu equipamento antigo, contacte as autoridades locais, os serviços de eliminação de resíduos ou o estabelecimento comercial onde adquiriu o produto.

Română (Romanian) - Informații de mediu pentru clienții din Uniunea Europeană

Directiva europeană 2002/96/CE impune ca echipamentele care prezintă acest simbol pe produs şi/sau pe ambalajul acestuia să nu fie casate împreună cu gunoiul menajer municipal. Simbolul indică faptul că acest produs trebuie să fie casat separat de gunoiul menajer obişnuit. Este responsabilitatea dvs. să casați acest produs şi alte echipamente electrice şi electronice prin intermediul unităților de colectare special desemnate de guvern sau de autoritățile locale. Casarea şi reciclarea corecte vor ajuta la prevenirea potențialelor consecințe negative asupra sănătății mediului şi a oamenilor. Pentru mai multe informații detaliate cu privire la casarea acestui echipament vechi, contactați autoritățile locale, serviciul de salubrizare sau magazinul de la care ați achiziționat produsul.

Slovenčina (Slovak) - Informácie o ochrane životného prostredia pre zákazníkov v Európskej únii

Podľa európskej smernice 2002/96/ES zariadenie s týmto symbolom na produkte a/alebo jeho balení nesmie byť likvidované spolu s netriedeným komunálnym odpadom. Symbol znamená, že produkt by sa mal likvidovať oddelene od bežného odpadu z domácností. Je vašou povinnosťou likvidovať toto i ostatné elektrické a elektronické zariadenia prostredníctvom špecializovaných zberných zariadení určených vládou alebo miestnymi orgánmi. Správna likvidácia a recyklácia pomôže zabrániť prípadným negatívnym dopadom na životné prostredie a zdravie ľudí. Ak máte záujem o podrobnejšie informácie o likvidácii starého zariadenia, obráťte sa, prosím, na miestne orgány, organizácie zaoberajúce sa likvidáciou odpadov alebo obchod, v ktorom ste si produkt zakúpili.

Slovenščina (Slovene) - Okoljske informacije za stranke v Evropski uniji

Evropska direktiva 2002/96/ES prepoveduje odlaganje opreme s tem simbolom – na izdelku in/ali na embalaži z nesortiranimi komunalnimi odpadki. Ta simbol opozarja, da je treba izdelek zavreči ločeno od preostalih gospodinjskih odpadkov. Vaša odgovornost je, da to in preostalo električno in elektronsko opremo oddate na posebna zbirališča, ki jih določijo državne ustanove ali lokalne oblasti. S pravilnim odlaganjem in recikliranjem boste preprečili morebitne škodljive vplive na okolje in zdravje ljudi. Če želite izvedeti več o odlaganju stare opreme, se obrnite na lokalne oblasti, odlagališče odpadkov ali trgovino, kjer ste izdelek kupili.

Suomi (Finnish) - Ympäristöä koskevia tietoja EUalueen asiakkaille

EU-direktiivi 2002/96/EY edellyttää, että jos laitteistossa on tämä symboli itse tuotteessa ja/tai sen pakkauksessa, laitteistoa ei saa hävittää lajittelemattoman yhdyskuntajätteen mukana. Symboli merkitsee sitä, että tämä tuote on hävitettävä erillään tavallisesta kotitalousjätteestä. Sinun vastuullasi on hävittää tämä elektroniikkatuote ja muut vastaavat elektroniikkatuotteet viemällä tuote tai tuotteet viranomaisten määräämään keräyspisteeseen. Laitteiston oikea hävittäminen estää mahdolliset kielteiset vaikutukset ympäristöön ja ihmisten terveyteen. Lisätietoja vanhan laitteiston oikeasta hävitystavasta saa paikallisilta viranomaisilta, jätteenhävityspalvelusta tai siitä myymälästä, josta ostit tuotteen.

Svenska (Swedish) - Miljöinformation för kunder i Europeiska unionen

Det europeiska direktivet 2002/96/EC kräver att utrustning med denna symbol på produkten och/eller förpackningen inte får kastas med osorterat kommunalt avfall. Symbolen visar att denna produkt bör kastas efter att den avskiljts från vanligt hushållsavfall. Det faller på ditt ansvar att kasta denna och annan elektrisk och elektronisk utrustning på fastställda insamlingsplatser utsedda av regeringen eller lokala myndigheter. Korrekt kassering och återvinning skyddar mot eventuella negativa konsekvenser för miljön och personhälsa. För mer detaljerad information om kassering av din gamla utrustning kontaktar du dina lokala myndigheter, avfallshanteringen eller butiken där du köpte produkten.

Copyright Notice

BlueZ - Bluetooth protocol stack for Linux

Copyright (C) 2000-2001 Qualcomm Incorporated

Copyright (C) 2002-2003 Maxim Krasnyansky <maxk@qualcomm.com>

Copyright (C) 2002-2006 Marcel Holtmann marcel@holtmann.org

WPA Supplicant

Copyright (c) 2003-2006, Jouni Malinen <jkmaline@cc.hut.fi> and contributors All Rights Reserved.

Perl Kit, Version 5

Copyright (C) 1993, 1994, 1995, 1996, 1997, 1998, 1999,2000, 2001, 2002, 2003, 2004, 2005, 2006 by Larry Wall and others

Open Source Licensing Information

The Brady Network Card contains open source software licensed under Version 2 of the GNU General Public License.

To view the license acreement, go to http://www.bradyid.com/opensource.

Safety and Environment

Please read and understand this manual before using the **BBP®33** *Sign & Label Printer* for the first time. This manual describes all of the main functions of the printer.

Precautions

Before using the printer, please note the following precautions:

- Read all instructions carefully before operating the printer and prior to performing any procedure.
- Do not place the unit on an unstable surface or stand.
- Do not place anything on top of the unit.
- Keep the top clear of obstructions.
- Always use the printer in a well ventilated area. Do not block the slots and opening on the unit, which are provided for ventilation.
- Only use the power source indicated on the rating label.
- Use only the power cord that comes with the unit.
- Do not place anything on the power cord.

Technical Support and Registration

Contact Information

For repair or technical assistance, locate your regional **Brady** Technical Support office by going to:

- **United States**: www.bradyid.com
- **Europe**: www.bradyeurope.com
- **Asia Pacific**: www.bradycorp.com
- **Australia**: www.bradyaust.com.au
- **Canada**: www.bradycanada.ca
- **Latin American**: www.bradylatinamerica.com

Registration Information

To register your printer, go to:

- www.bradycorp.com/register
- www.bradyaust.com.au/register (Australia)

Repair and Return

If for any reason you need to return the **BBP®33** printer for repair, please contact **Brady** Technical Support for repair and replacement information.

Overview

About this Document

The purpose of this guide is to provide information and instructions on using the **BBP®33** *Sign & Label Printer*.

Conventions

When using this document, it is important that you understand the conventions used throughout the manual.

- All User actions are indicated by **Bold** text.
- References to menus, dialog boxes, button and screens are indicated by *Italics* text.
- See *"Keypad and Menu Functions" on page 1-3* for a description of the menus and controls.
- Graphic callouts are numbered with the procedure "step number" to which they refer (i.e., if Step 3 refers to a callout in the graphic, the step text will indicate **[3]** and the callout will indicate **3**). Otherwise, callouts are numbered in the order in which they are referenced in the text,

Keypad and Button Actions

Press the following to use the keypad and user interface buttons (for more detail, see *"Keypad and Menu Functions" on page 1-3*):

Icon	Description
	Scroll through menus.
	Select options or go to a submenu.
	Power button.
	Feed media.
	Select from menu options.

This page is intentionally left blank.

Contents

Copyright and Trademarks ..... **iii**
Brady Warranty ..... **iv**
BBP®33 Agency Compliance and Approvals ..... **v**
Brady Network Card Compliance and Approvals ..... **vi**
Safety and Environment ..... **xxxi**
Technical Support and Registration ..... **xxii**
Overview ..... **xxiii**

1 - Introduction

Features and Functions **1-1**
Compatible Applications **1-2**
System Specifications **1-2**
Keypad and Menu Functions **1-3**
User Interface 1-3
Display Screen 1-4
Ready Mode *1-4*
Menu Selection Mode *1-5*
User Interface Menu Structure **1-6**

2 - Printer Set Up

Unpack and Set up Printer **2-1**
What's in the Box 2-1
System Components 2-2
Set up the Printer 2-3
Connect Printer Power *2-3*
Install or Change Supplies *2-4*
Feeding and Cutting Label Stock 2-9
Print Two-sided Sleeve Material **2-10**
System Power **2-12**
Starting Printer 2-12
Powering Off the Printer 2-12
Rebooting the Printer 2-12
Connect Printer to a PC via USB **2-13**
Brady Network Cards **2-14**
LED Light 2-14
Supported Networks 2-14
Installing a Brady Network Card 2-15
WiFi Installation (first time) *2-16*
Ethernet Installation (first time) *2-25*
Additional PC's Installation *2-34*
USB Driver (only) Installation *2-39*

Adhoc Installation (first time) *2-44*
Install USB Driver 2-44
Establish Adhoc Connection 2-44
Install Network Driver 2-46
Troubleshooting Brady Network Card 2-47
Ethernet Connection Failed *2-47*
WiFi Connection Failed *2-48*
USB Connection Failed *2-50*
Brady Network Card Configuration Utility 2-51
General Settings *2-51*
Network Settings *2-52*
WiFi Settings *2-53*
Bluetooth Settings *2-55*
Name 2-55
Mode 2-55
PIN 2-55
Firmware Upgrade/Factory Reset *2-56*
Upgrade Firmware 2-56
Factory Reset 2-60

3 - User Interface Menu

Print Energy **3-3**
Print Speed **3-4**
Tear/Cut Settings **3-4**
Mirror Print Settings **3-5**
Offset **3-5**
Language **3-6**
Units **3-6**
Contrast **3-7**
Standby Interval **3-7**
Date & Time **3-8**
Connection **3-8**
Restore Defaults **3-9**
Import **3-10**
Delete **3-12**
Password Protection **3-13**
Upgrade from PC **3-15**
Upgrade from USB Flash Drive **3-16**

Diagnostics **3-17**
Enter Diagnostic Mode 3-17
Sensors 3-17
Print Engine Base (PEB) Settings *3-17*
Sensor Conditions *3-18*
Analog Readings *3-19*
Copy Error Logs 3-20
Printer Error Log *3-20*
Script Error Log *3-20*
USB Test 3-21
USB Flash Drive Test *3-21*
USB Type-B Cable Test *3-21*
Keyboard Setup 3-22
Info 3-22
Advanced Diagnostics **3-22**

4 - Maintenance

Printer Maintenance **4-1**
Removing Power and Media from Printer 4-1
Cleaning the Printer 4-3
Remove Dust *4-3*
Clean Printer and Keypad Residue *4-4*
Clean LCD Screen *4-4*
Clean Tearbar *4-5*
Clean Auto-Cutter Blade *4-7*
Clean Sensors *4-9*
Clean Tape Entrance *4-10*
Cleaning the Cutter Blade Exit Area (Auto Cutter only) *4-12*
Clean Printhead *4-13*
Replacing the Media Wiper 4-14
Clearing Jams 4-15
Replacing/Adjust Media End Caps 4-16

5 - Troubleshooting

Messages **5-1**
Printing Errors 5-1
Hardware Errors 5-2
Media Errors 5-3
Ribbon Errors 5-3

A - Supported Scripting Languages

ZPL Supported Commands **A-1**
jScript Supported Commands **A-5**
DPL Supported Commands **A-7**

1 Introduction

Thank you for purchasing the **BBP®33** *Sign & Label Printer* 4" mono-color peripheral printer. This compact, easy-to-operate thermal transfer printer is a stand-alone that easily connects to your computer for printing labels that you produce using LABELMARK™, labeling software. Media and ribbons from **Brady Corporation** are programmed to work specifically with the printer.

Features and Functions

The following are just some of the features that make this system so easy to use and ready to meet your label-printing requirements:

- Small, lightweight (approximately 11 lbs [4.9 kg]) unit, ready for your desktop.
- A variety of media colors, styles and materials and a wide range of single-color ribbons.
- Smart-cell technology that works intelligently with Brady consumables.
- Easy loading media and ribbon supplies.
- Continuous and die-cut media in a variety of high-performance materials.
- Maximum print speed of 4 ips.
- 300 dpi (11.8 dot/mm) print resolution.
- USB device ports.
- Optional Wireless capability.
- Ability to print from **LABELMARK™** *Label Design Software* and **MARKWARE™** *Tape and Label Software*.
- Scalable True Type Fonts.
- Built-in tear bar or autocutter.
- Optional cutter for automatically cutting the media.
- LED display screen to view system status and set printer defaults and options.

Compatible Applications

The **BBP®33** *Sign & Label Printer* is compatible with the following software applications:

- **LABELMARK™** *Label Design Software*
- **MARKWARE™** *Tape and Label Software*

When used with one of these software packages, the printer will automatically recognize all enabled and compatible media.

Note: Only **BBP®33** supplies will work with this printer.

System Specifications

- **Weight**: 11 lbs (4.9 kg)
- **Dimensions** (stored): 8.9 in. x 12.0 in. x 9.5 in. (22.6 cm x 30.5 cm x 24.1 cm)
- **Operating Temperature**: 50 to 104°F (10-40°C)
- **Relative Humidity**: 10% to 80% RH non-condensing
- **Storage**: -4 to 122°F (-20 to 50°C) at 15% to 90% RH non-condensing
- **Voltage**: 90 to 264 VAC, 47 to 63 Hz
- **Print Resolution**: 300 dpi, 11.8 dot/mm
- **Output media size**: up to 4 in. (101.6 mm) wide

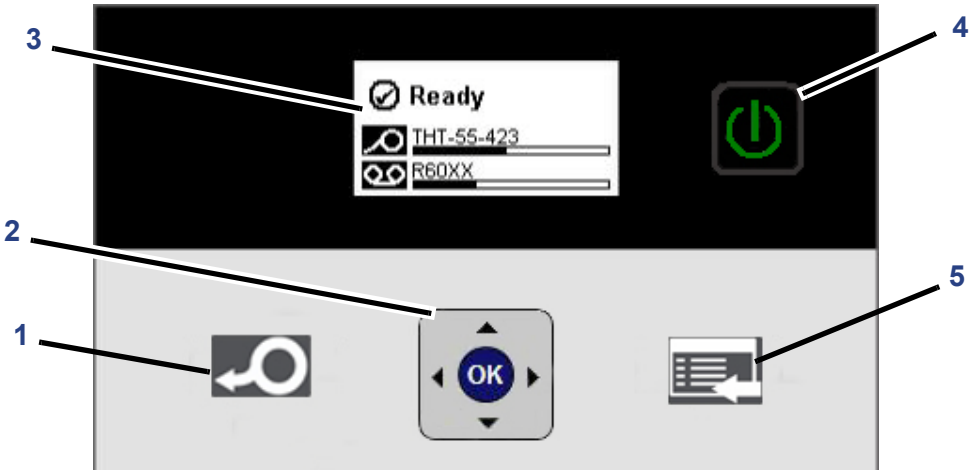
Keypad and Menu Functions

The following describes the keys, buttons and display screen that are used to navigate through and use the **BBP®33** *Sign & Label Printer* system.

User Interface

The user interface (UI) contains the keypad and buttons for using the printer. The main functions are as follows:

Item #	Icon	Description
1		**Feed:** Feeds the labels through the printer to the next notch on the liner. Feeds a full label for die cut; 0.5-inch (12.7 mm) for continuous.
2		**Keypad:** • Press ▼or ▲ to move through primary menu. • Press ◀ to exit or move up a menu. • Press ▶ for menu support functions. • Press to accept a selection or move through submenus.
3	--	**Display Screen:** See *"Display Screen" on page 1-4* for details.
4		**Power Button**: Turns the printer on and off.
5		**Menu:** The display screen.



Display Screen

The display screen has two modes:

- **Ready Mode**: Indicates printer status and displays estimated remaining media and estimated remaining ribbon. Also indicates the media and ribbon installed.
- **Menu Selection Mode**: Lets you configure system defaults, view and set printer information, perform input and output operations and perform diagnostics.

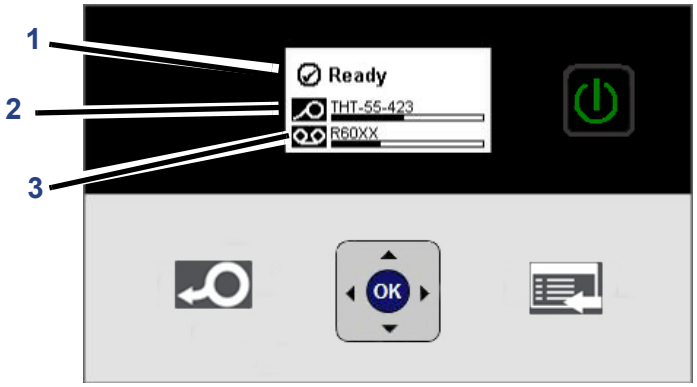
Ready Mode

The printer has three ready modes (see *"Connection" on page 3-8* for more detail):

- **Initializing**
- **Ready**
- **Ready - USB Only**

The table describes the display screen when in idle (Ready) mode.

Item #	Condition	Description
1	**Printer Status**	Displays the online printer status.
2	**Media Status**	Displays media part number and estimated amount of remaining media.
3	**Ribbon Status**	Displays ribbon part number and estimated amount of remaining ribbon.

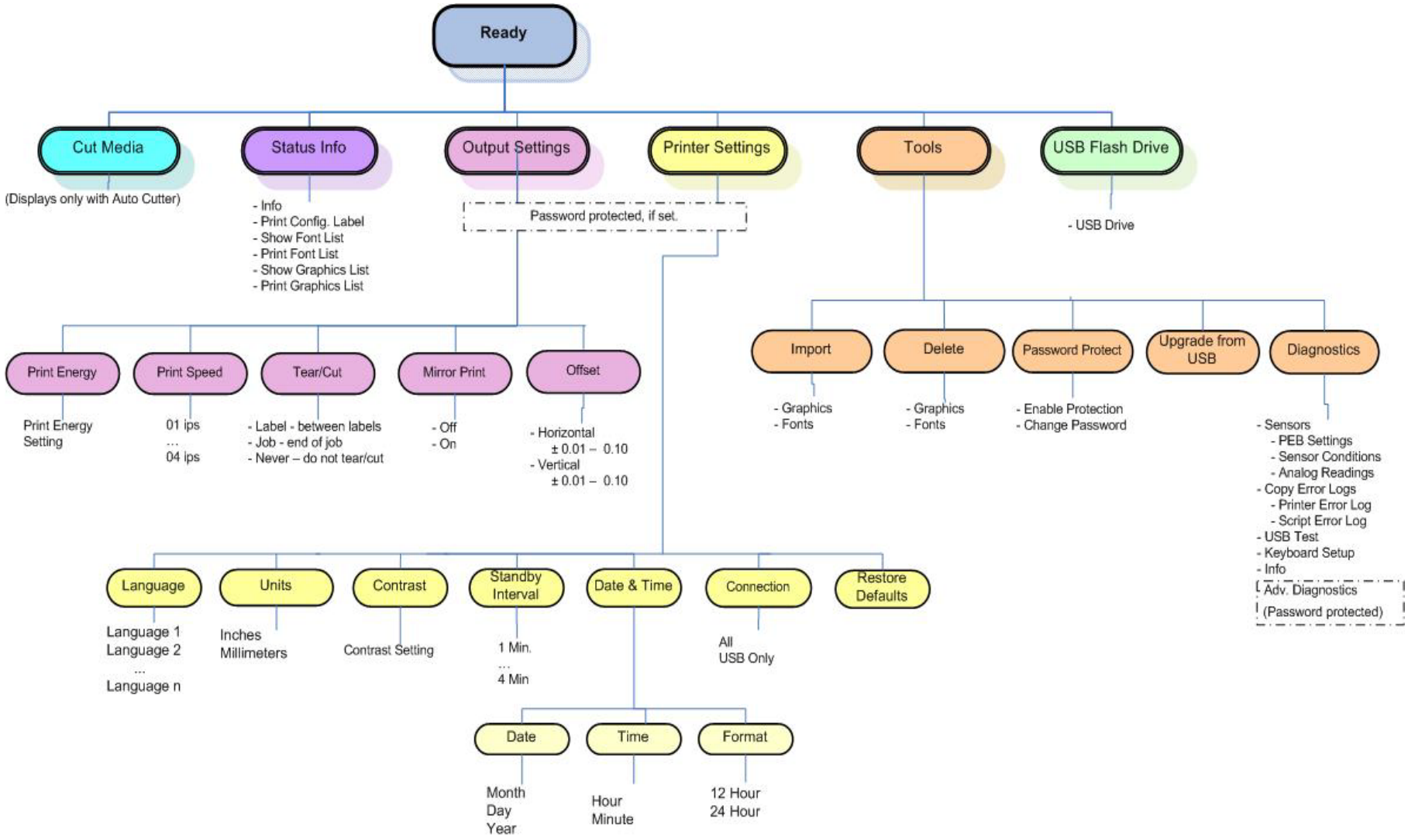


Menu Selection Mode

The table describes the main options of the display screen when in menu selection mode. See *"User Interface Menu Structure" on page 1-6* for a list of all the menu options.

Menu Item	Description
Cut Media	*Auto cutter only*: Used to automatically cut the media.
Status Info	Options to display or print status and configuration information, font list and/or graphic list.
Output Settings	Indicates print energy, print speed, tear/cut status and mirror print settings.
Printer Settings	Options to set up printer defaults for language, units, contrast, standby interval, date and time (clock) and restore defaults.
Tools	Options to import or delete graphics and fonts, upgrade from a PC or USB device, perform diagnostics, enable password protection or change a password.
USB Flash Drive	Accesses label script files.

User Interface Menu Structure



2 Printer Set Up

Unpack and Set up Printer

Carefully unpack and inspect the printer surfaces (interior and exterior) and the labeling system for possible damage during shipping.

Note: Be sure to remove any transportation protection from around the printhead and inside the enclosure cover.

What's in the Box

- **BBP®33** *Sign & Label Printer*
- Power Cord
- USB Type B Cable
- Printed Quick Start Guide
- Product CD including: electronic Quick Start Guide, electronic User's Manual, BPL Programmer's Manual and web links
- Windows Printer Driver CD
- Cleaning Kit (Cat # B31-CCT), not available in all regions - includes foam swabs, adhesive scraping tool, plastic bottle

Note: Please keep the original packaging, including the box, in case the printer must be returned.

System Components

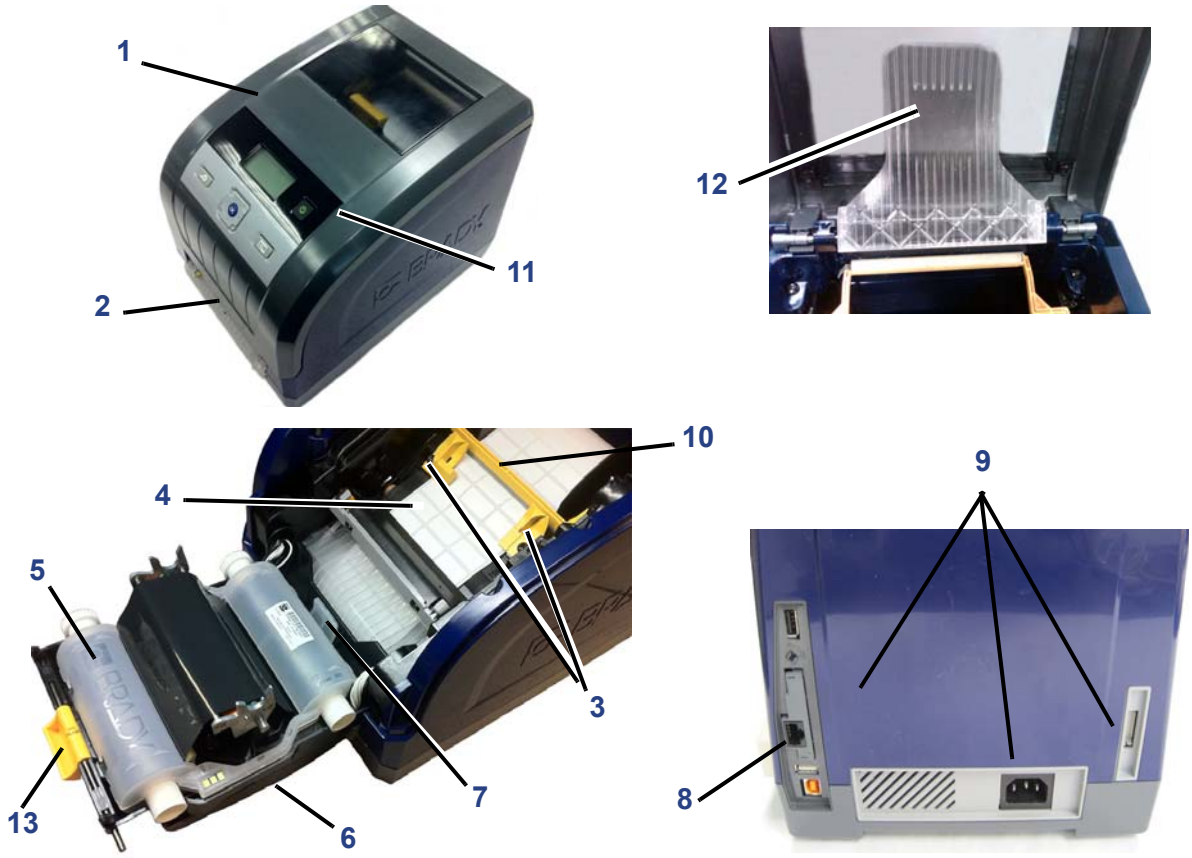


Figure 2-1. Printer Components

1	**Enclosure Cover**	**2**	**Label Exit/Tearoff Bar or Auto Cutter***
3	**Media Guides**	**4**	**Media**
5	**Ribbon Cartridge**	**6**	**Ribbon Cover**
7	**Ribbon Cartridge Latch**	**8**	**Brady Network Card**
9	**Expansion Ports**	**10**	**Media Wiper**
11	**Power Button**	**12**	**Media Bridge***
13	**Ribbon Cover Latch**		

*See User's Manual for component descriptions.

Set up the Printer

Connect Printer Power

To setup the printer:

1. Plug the power cord [1] into the printer at the location shown.
2. Plug the other end of the power cord into an AC power outlet. The printer automatically turns on and displays the printer status and the size and color of the currently installed media.

Install or Change Supplies

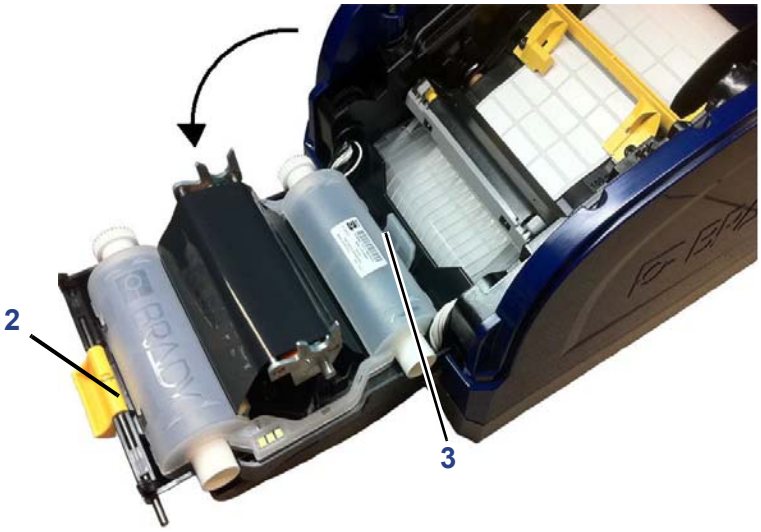
The media and ribbon supply cartridges use a “smart cell” to define and track the supply information. The system automatically recognizes the supply information for the installed media and ribbon.

Note: The printer can be either on or off when changing supplies.

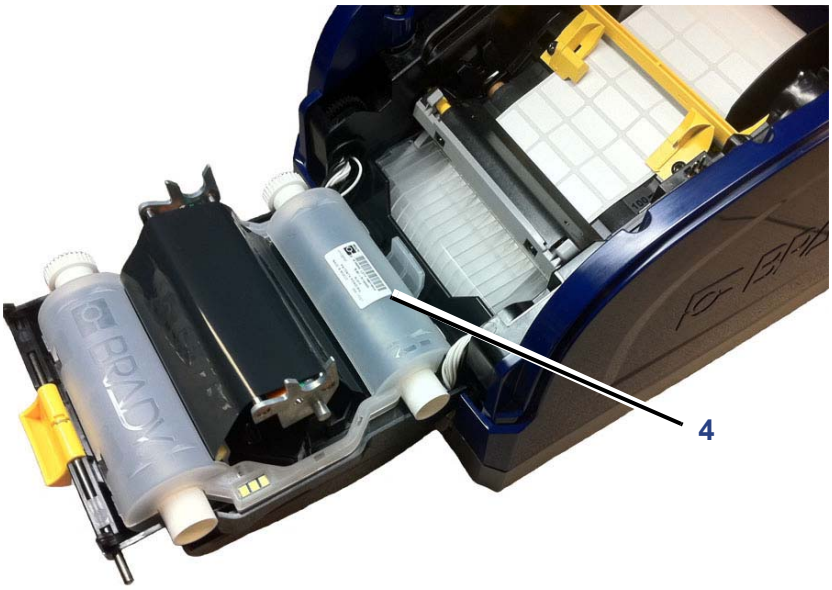
To install or change ribbon:

1. To remove ribbon, open the enclosure cover.

2. Release the latch on the ribbon cover [2] and swing open.
3. Release the ribbon cartridge latch [3] and lift the ribbon cartridge up and out.



4. Place ribbon cartridge with ribbon over print head [4] and the product label toward machine, then snap into place.

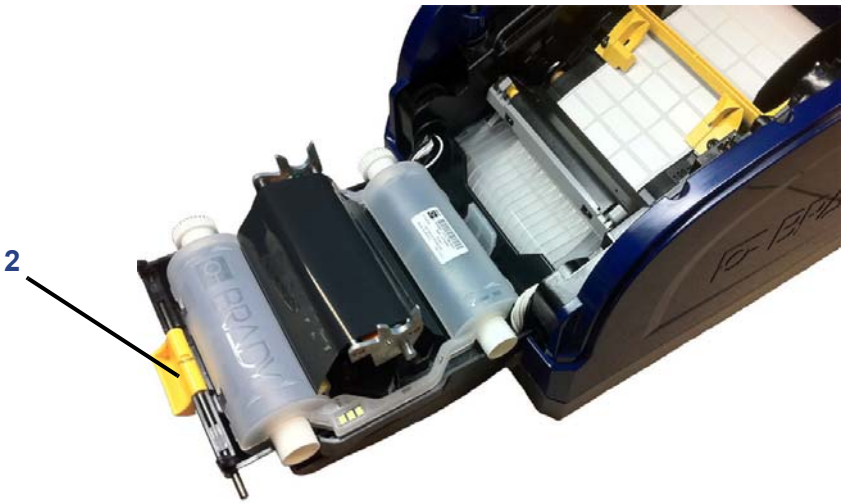


5. Close and latch the ribbon cover.
6. Close the enclosure cover.
7. If printer was off, press . The system detects the media and ribbon colors and sets the amount of remaining supplies.

To install or change media:

1. Open the enclosure cover.

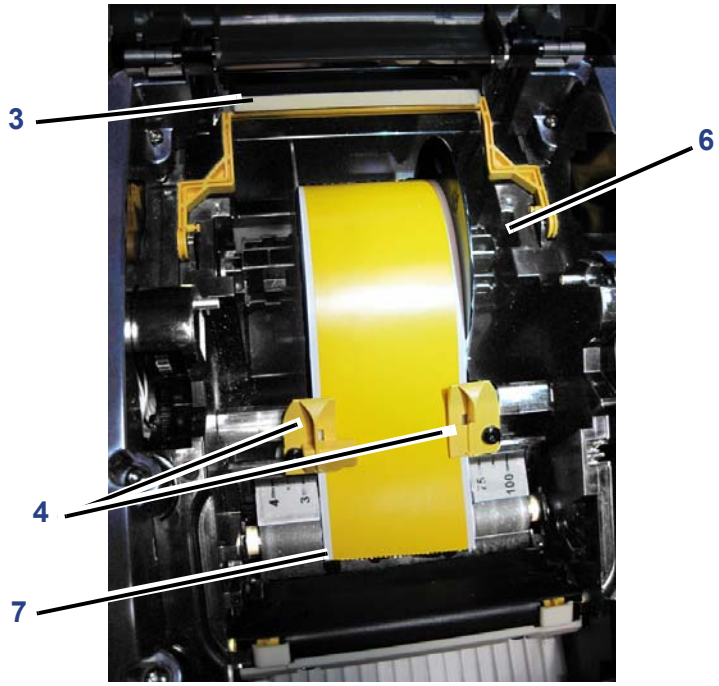
2. Release the latch on the ribbon cover [2] and swing open.



3. If engaged, swing yellow media wiper [3] to the back.
4. Slide yellow media guides [4] to full-open.
5. Remove existing media, if installed, by pulling cartridge from printer.
6. Insert media cartridge until spindle ends rest in slots of media holder [6]. Media unwinds from the top of the roll and the smart cell should be on the left side of the spindle.
7. Feed media from top of roll until it sits just past the black rubber roller.
8. Close media guides until they touch edge of media liner with media under the guides.
9. Move media wiper into position so it rests on media.

Note: Not all media requires the use of the media wiper. Engage the media wiper only if continuous media is installed.

10. Close and latch ribbon cover.



Note: When sleeve material is used, the tearbar should be released so the material does not catch on the tearbar when the material is retracted.

11. If sleeve material is installed, release the tearbar by moving the two release tabs [11], one each side, toward the outer edge. The tearbar will automatically flip up.

12. Close the enclosure cover.
13. If printer was off, press . The system detects the installed supplies and indicates the amount of remaining supplies on the display screen.

Feeding and Cutting Label Stock

Use this procedure to advance the media to the cut position, and (optionally) tear or cut the media.

Note: For die-cut media, the media is advanced to the cut position which is the next die-cut label. For continuous media, the media advances until you release the Feed button.

To feed and tear or cut the label stock:

1. With printer power on, press and hold **Feed** until the length of media you want exits the printer.
2. To cut the media, follow the instructions for tearbar or cutter:

Tearbar:

- Tear the media up and across the tear bar.

Cutter:

Note: If using the printer with an auto cutter, the media is cut from the *Cut Media* menu.

a. Press to go to the navigation menu.

b. Press ▲ or ▼ to scroll to **Cut Media**, then press OK. The media is cut.

Print Two-sided Sleeve Material

When printing two-sided sleeve material, side one is loaded and printed directly from the roll. To print side two, the material is cut at the end of the job, then loaded from the back of the printer.

A media bridge holds the two-sided material above the the tape roll. The two-sided material lays across the bridge to enter the tape entrance ramp. When done, the bridge is raised and snaps into the enclosure cover.

To setup the media bridge:

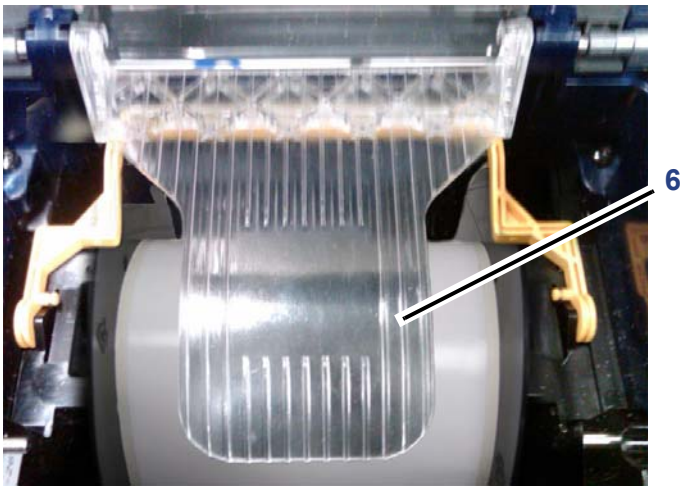
1. Print side one of the two-sided markers.
2. When the job is done, cut the printed markers.

Note: Use scissors or auto-cutter to cut the markers. Using the tear bar is not recommended.

3. Open the enclosure cover and ribbon cover.
4. Disengage the yellow wiper arm.
5. Back the media out of the printer but do not remove the media roll.

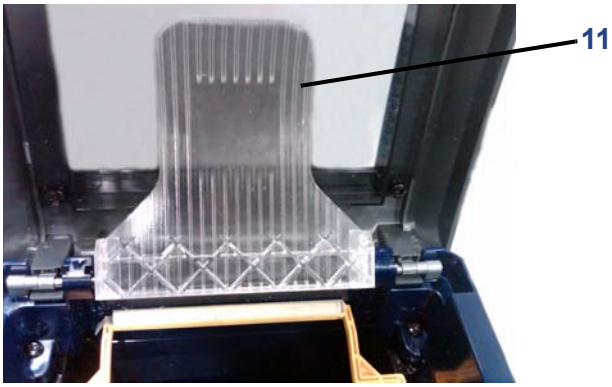
Note: The media roll must remain in the media slot or the printer will indicate a *tape out* condition.

6. Flip the media bridge down so it lays over the roll of tape [6].



Note: Make sure you place the edge for the **starting (1st)** label into the printer first.

7. From the back of the printer, feed the edge of the marker through the slot between the enclosure cover and the printer as follows:
    - Starting marker (1st printed label) through slot first
    - Printed side down
8. Lay the markers over the media bridge and feed the markers to the top of the black roller ~.25 in. (6.35 mm) from the exit.
9. Close the ribbon and enclosure covers and print side two of the markers.
10. When the job is complete, open the enclosure and ribbon covers.
11. Lift the media bridge [11] up and snap into place on the enclosure cover.
12. Close the enclosure cover.



System Power

These procedures describe how to power-up the printer when starting from a non-powered state (i.e., printer has been unplugged) and how to remove power from the printer.

Note: With power removed (i.e., printer disconnected from power source), the system clock retains its settings for about 30 days.

Starting Printer

- **To start printer from a cold state**: Plug the printer into a power source. The system automatically recognizes the supply information for the installed media and ribbon and the display panel indicates **Ready**.

  Note: The backlight for the display panel turns off after a pre-defined period of time.

- **To turn on the backlight**: Press any button.

Powering Off the Printer

When the system is shut down, the display turns off.

To completely remove printer power:

1. Disconnect the power cord from the printer.

To perform a soft power down:

1. Press and release . The screen goes blank and the backlight goes off.

Rebooting the Printer

Use this procedure to reboot the printer (e.g., if the screen freezes).

To reset the printer:

1. Press and hold for at least 5 seconds. The system performs the initialization process and restarts the printer.
2. When the *Ready* displays, you can continue printing your labels.

Connect Printer to a PC via USB

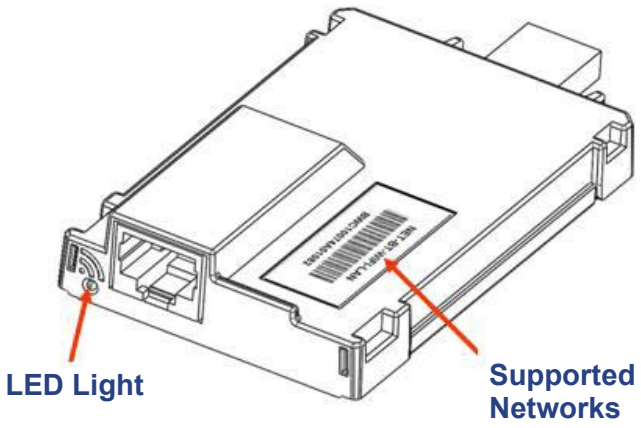
To use your PC with the **BBP®33** *Sign & Label Printer*, you must have the USB device driver installed on your PC.

Note: See *"Compatible Applications" on page 1-2* for a list of software applications that are compatible with the **BBP®33**. Refer to your labeling software documentation for instructions about installing and using the software.

To install the USB device driver:

1. Go to *"Install USB Driver (only)" on page 2-39*.

Brady Network Cards



LED Light

The changing colors of the LED light on the Brady Network Card signifies the following:

Color	Status
Solid Green	Card is functioning normally, status is OK.
Blinking Orange	The firmware is corrupted and it needs to be upgraded. Use the Brady Network Card Configuration Utility to upgrade the firmware (see *"Firmware Upgrade/Factory Reset" on page 2-56* for information on downloading new firmware.)
Blinking Green	Firmware upgrade is in progress.
Solid Red	Card failure. There is no communication between the Brady Network Card and the printer. Contact your system administrator.
Blinking Red	An error is detected in the current operation of the Brady Network Card. Check the current operation.

Supported Networks

The name on the barcode label of your network card indicates which networks the specific card supports.

Name	Networks Supported
NET-BT-WIFI-LAN	Bluetooth, WiFi, and Ethernet
NET-WIFI	WiFi and Bluetooth ONLY
NET-BT	Bluetooth ONLY
NET-LAN	Ethernet ONLY

Installing a Brady Network Card

If your Brady printer is equipped with a Brady Network Card (WiFi or Ethernet), you can configure the printer to run as a local printer (physically attached to your PC via a USB cable) and as a network (shared) printer through Ethernet or WiFi.

To establish the printer as a network printer, you must configure the Brady Network Card to recognize and work with your networks. The Brady Printer Drivers CD contains the installation wizards for the Brady printer drivers and also the Brady Network Card configuration. The printer drivers and Brady Network Card drivers can also be downloaded from the Brady website at www.bradyid.com.

The network card installation and configuration wizard identifies the following installation scenarios:

- WiFi (first time)
- Ethernet (first time)
- Additional PC's
- USB Driver
- Adhoc (first time)

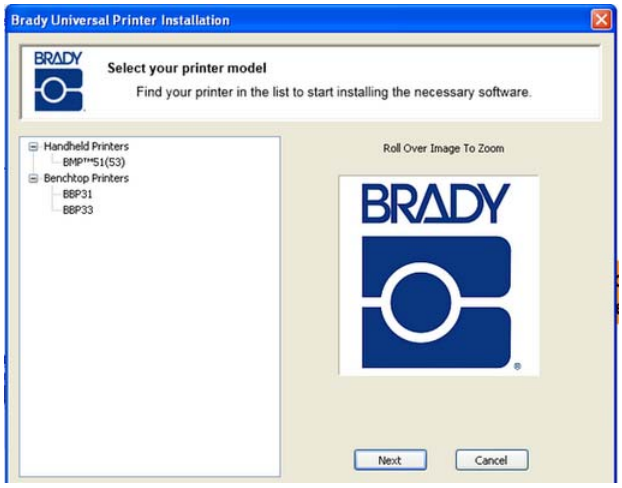
Install WiFi (first time)

Use this installation process to configure your Brady Network Card (BNC) for WiFi printing and install the printer driver for your Brady printer:

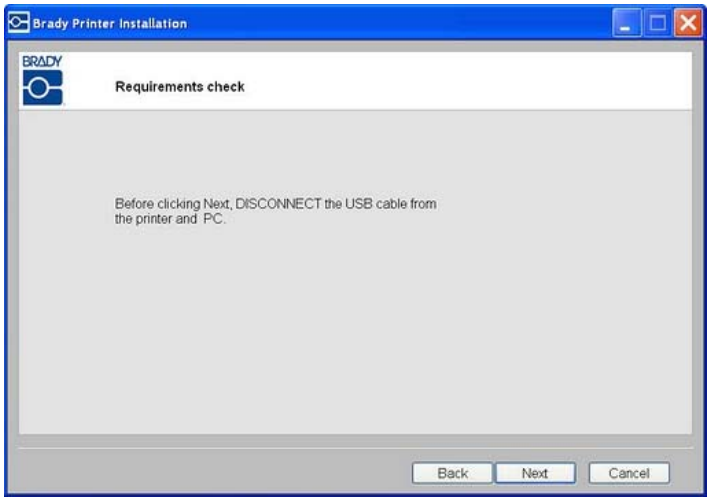
- If you have just purchased the printer and are setting it up for the first time.
- If you intend to send print jobs to the printer from a PC using a WiFi network.

To configure and install the BNC card:

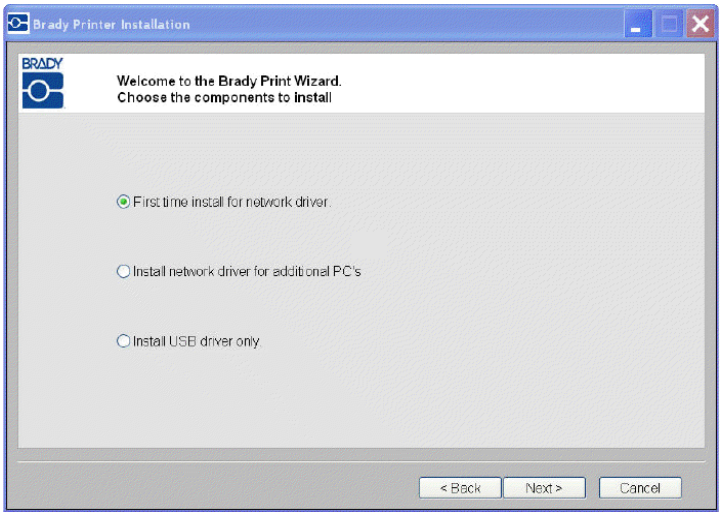
1. Make sure your printer and your PC are **not** connected with a USB cable.
2. Insert the *Brady Printer Drivers CD* into your computer CD drive. The installation wizard launches automatically.
3. Turn the printer on.
4. Click the printer model you are installing, then click **Next**.



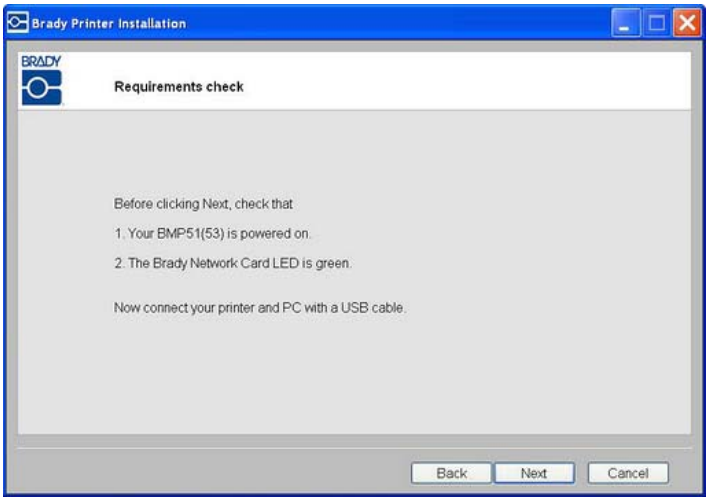
5. If your printer and PC are still connected with a USB cable, **disconnect** it now, then click **Next**.



6. Click **First time install for network driver** (default), then click **Next**.


Brady Printer Installation
BRADY
Welcome to the Brady Print Wizard.
Choose the components to install
First time install for network driver.
Install network driver for additional PC's
Install USB driver only
< Back
Next >
Cancel

7. Check that your printer is powered on and that the Brady Network Card LED is solid green.
8. Connect the printer to your PC with a USB cable.



9. If the *Found New Hardware Wizard* displays, continue with the next step, otherwise skip to *Step 14.*
10. Click the radio button **Yes, now and every time I connect a device**, then click **Next**.

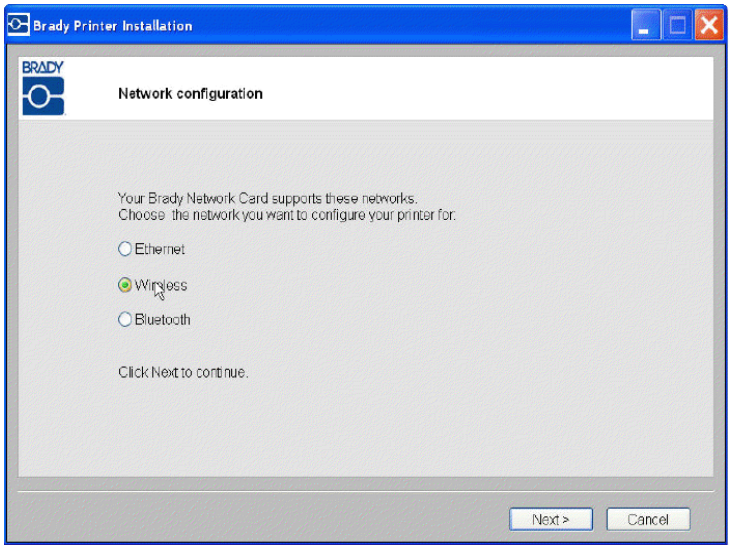
Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

11. Click the radio button **Install software automatically (Recommended)**, then click **Next**. The installation continues.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
BMP51(53)
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

12. When completed, click **Finish** to close the wizard, then click **Next**.

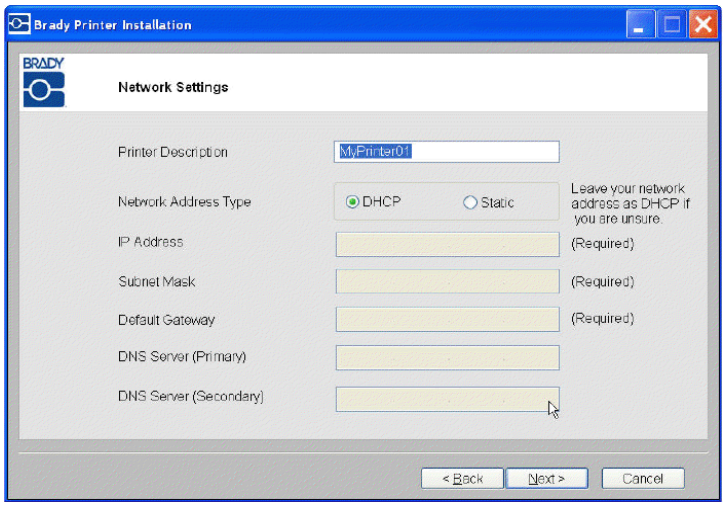
13. The networks supported by your Brady Network Card are shown. To activate WiFi, click **Wireless**, then click **Next**.



14. In the *Printer Description* field, enter an easy-to-identify name/description for this network connection. You can use any alphanumeric characters.
15. In the *Network Address Type* field, choose **DHCP** protocol (default).

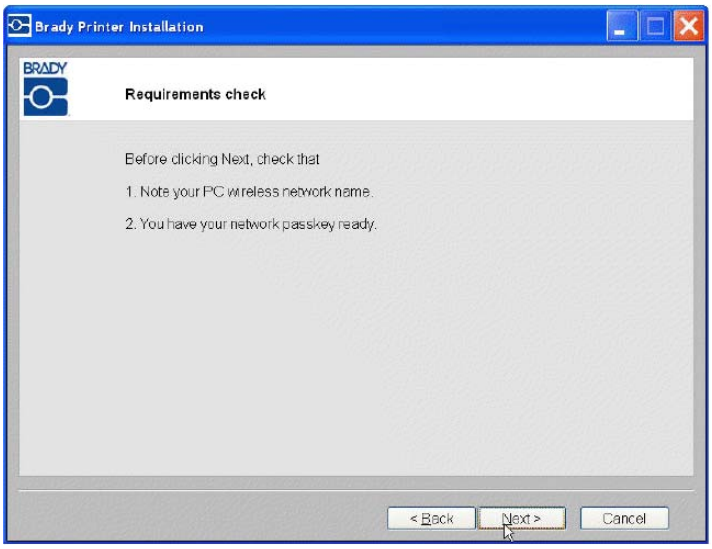
Note: If you choose Static, you must enter the IP Address, Subnet Mask and Default Gateway fields.

16. Click **Next**.



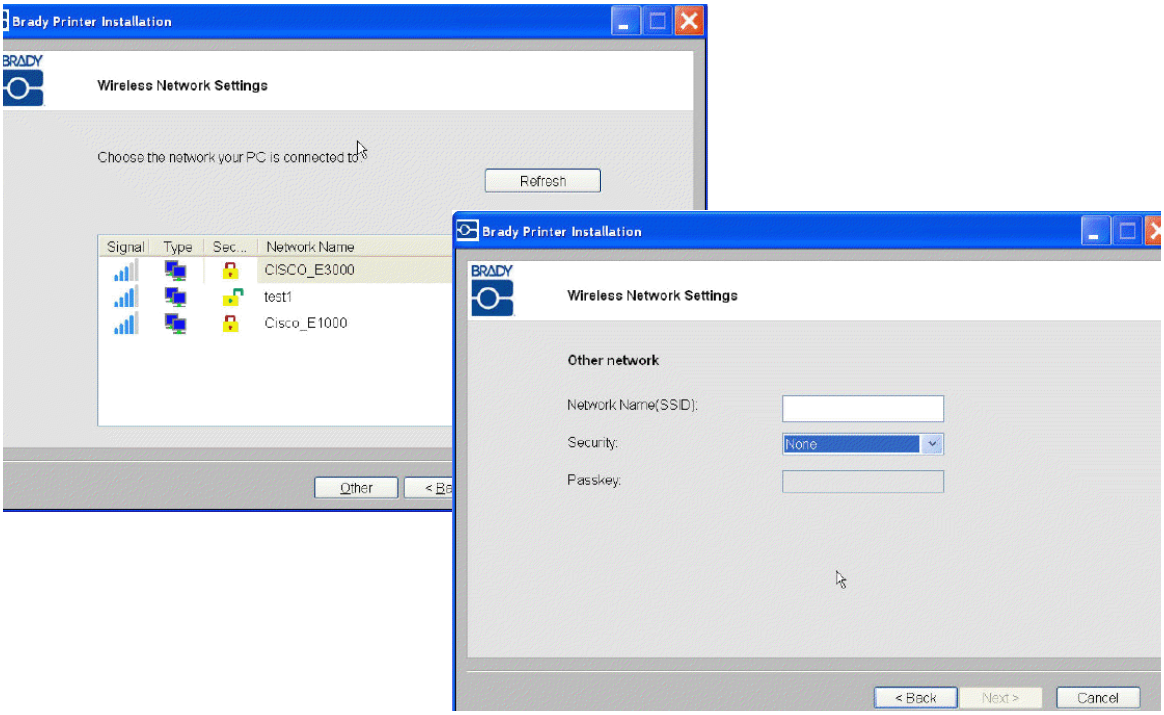
Note: Before continuing, have your PC's WiFi network name and network passkey (if the network is password protected).

17. Click **Next**.

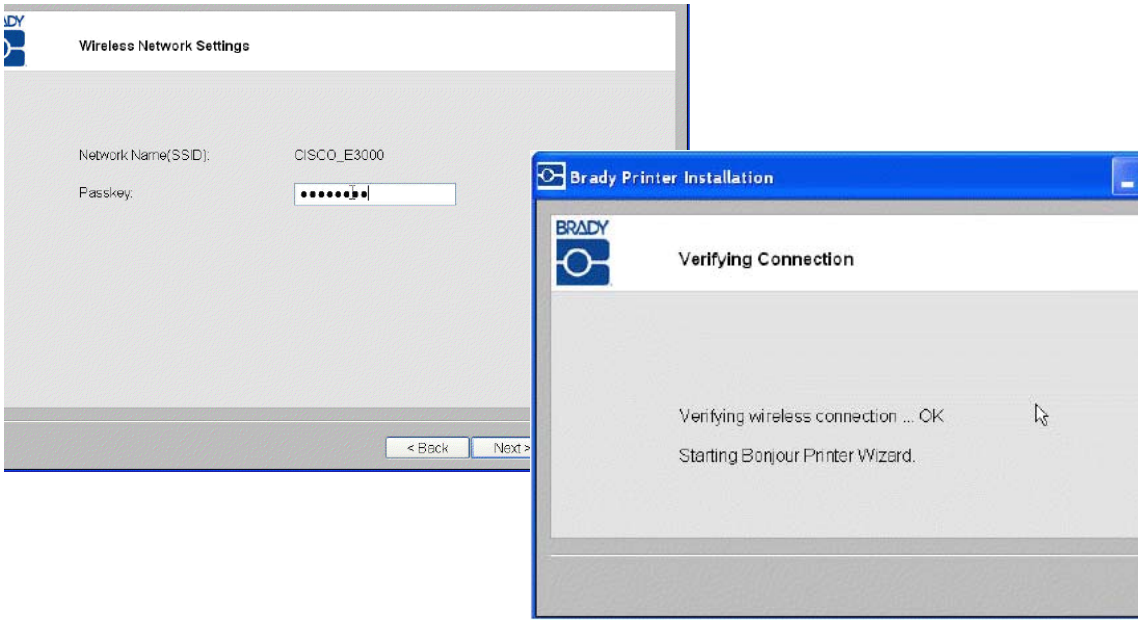

Brady Printer Installation
Requirements check
Before clicking Next, check that
1. Note your PC wireless network name.
2. You have your network passkey ready.
< Back
Next >
Cancel

18. Choose the network that your PC is currently connected to, then click **Next**.

Note: If you do not see your network in the list, you can choose *Other* to manually specify a network.



19. Enter the passkey for the selected network (if you do not know the password or security type, contact your network administrator), then click **Next**.

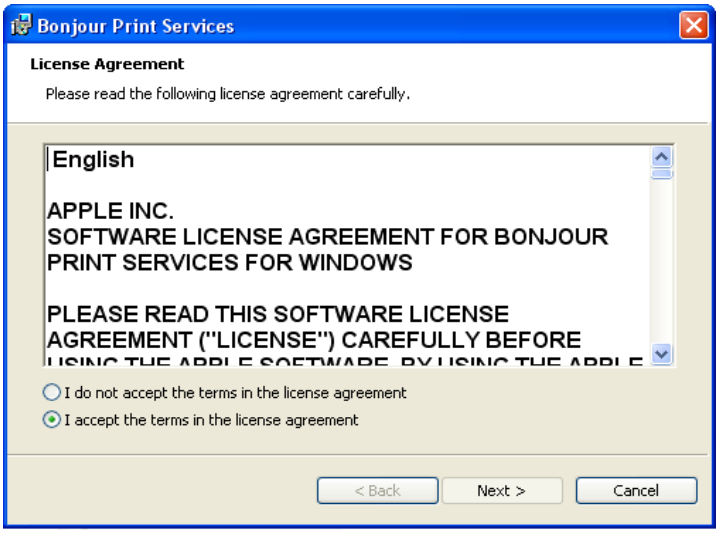


20. When the wireless connection is successful, the Bonjour wizard launches automatically. Click **Next**.

Note: The Bonjour program is designed to establish and monitor network printers. The Bonjour Printer Wizard establishes your Brady printer as a network printer.

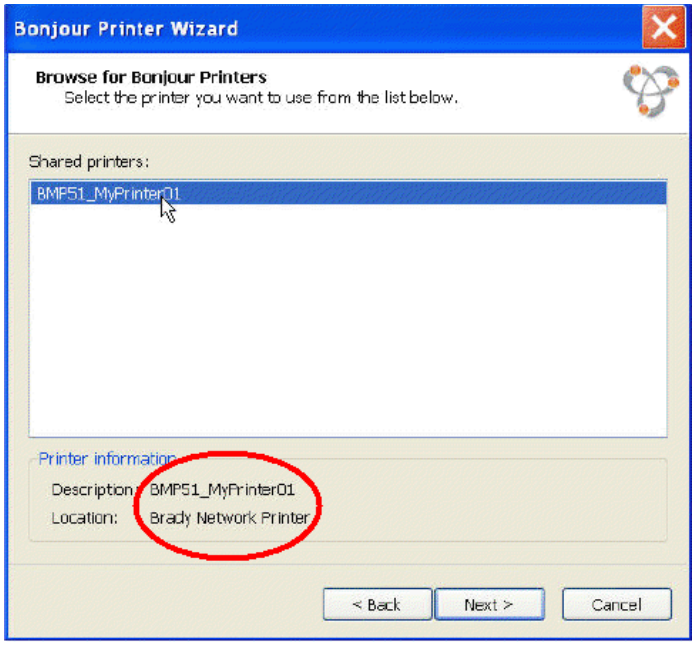
Bonjour Printer Wizard
Welcome to the Bonjour Printer Wizard
This wizard helps you connect to a shared printer using Bonjour. Make sure your printer is turned on and connected to your network.
To continue, click Next.
< Back
Next >
Cancel

21. Read the *Apple End User License Agreement* then click **I accept the terms in the license agreement**.
22. Click **Next** to continue.

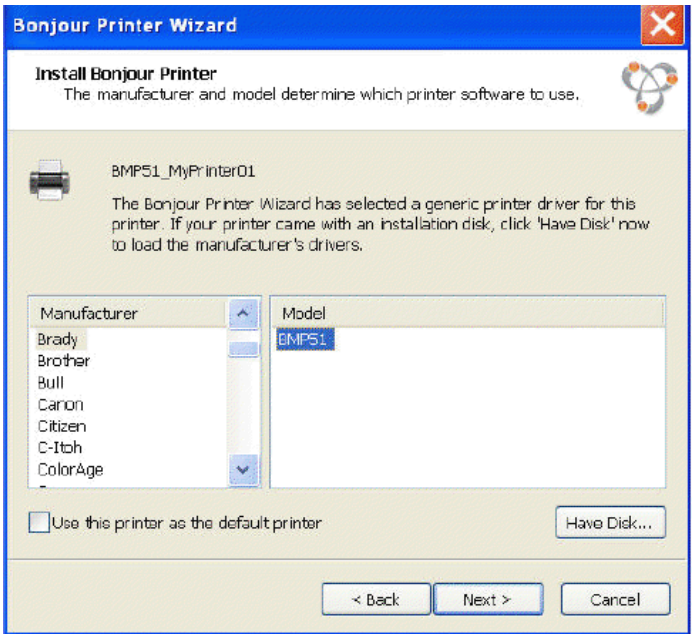

Bonjour Print Services
License Agreement
Please read the following license agreement carefully.
English
APPLE INC.
SOFTWARE LICENSE AGREEMENT FOR BONJOUR PRINT SERVICES FOR WINDOWS
PLEASE READ THIS SOFTWARE LICENSE AGREEMENT ("LICENSE") CAREFULLY BEFORE
I do not accept the terms in the license agreement
I accept the terms in the license agreement
< Back
Next >
Cancel

23. Click the assigned network printer name, then click **Next**.

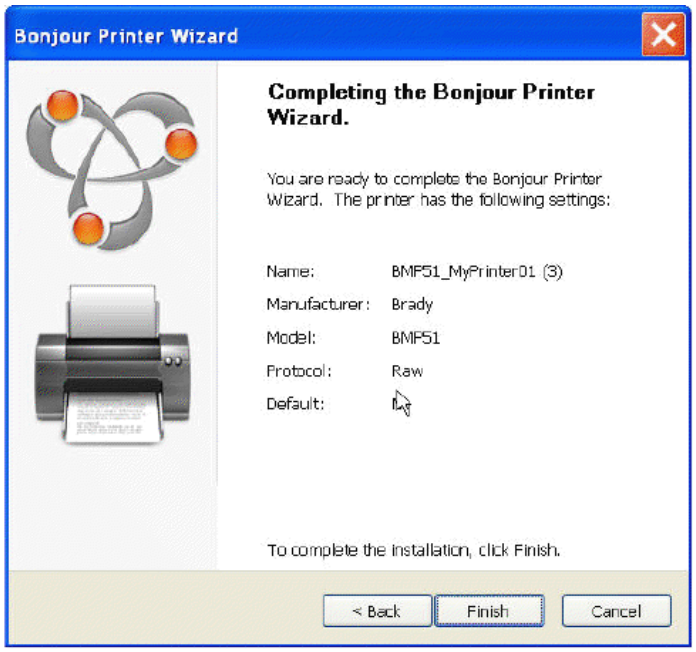
Note: For easier identification, the name or description you assigned in *Step 14.* displays in the lower left corner of the screen.



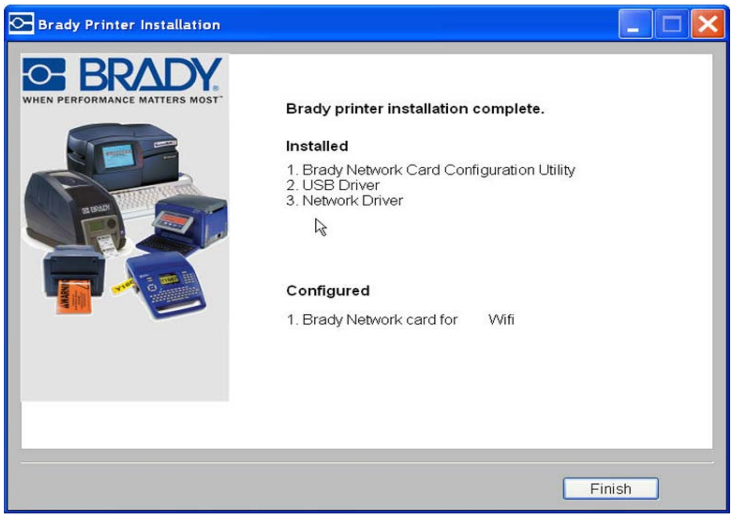
24. In the *Manufacturer* field, click **Brady** (the manufacturers are listed in alphabetical order).
25. In the *Model* field, click the printer to install, then click **Next**.



26. When the *Bonjour Printer* wizard completes, click **Finish**.



27. The Brady Printer Installation is completed. Click **Finish** to exit the wizard.



Install Ethernet (first time)

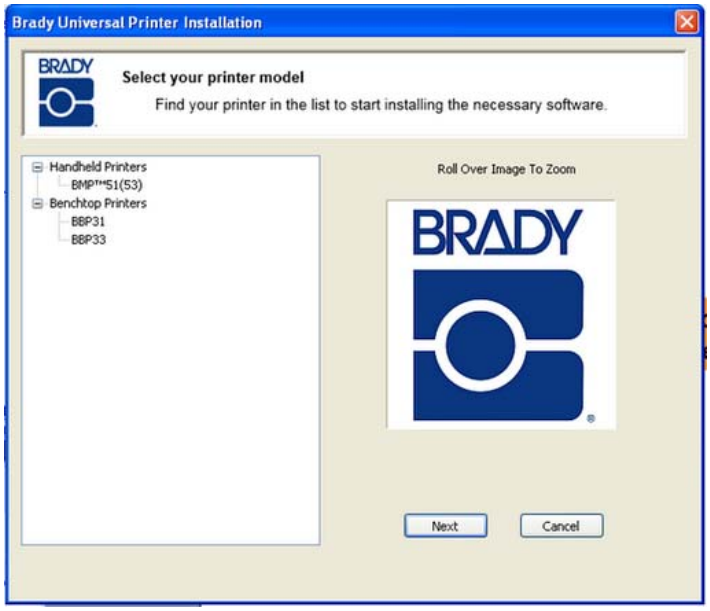
Use this installation process:

- if you have just purchased the printer and are setting it up for the first time.
- if you intend to send print jobs to the printer from a PC using Ethernet or over a LAN network.

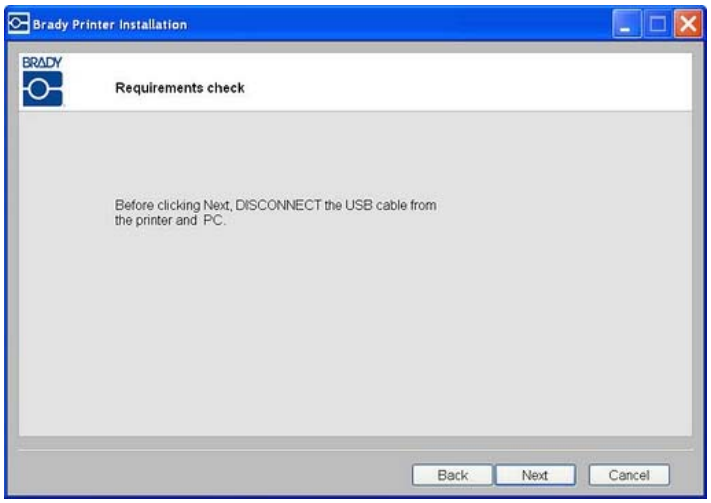
Note: The Brady Network Card is configured to support either Ethernet or WiFi connections. You cannot have both connections active at the same time.

To activate the Ethernet connection:

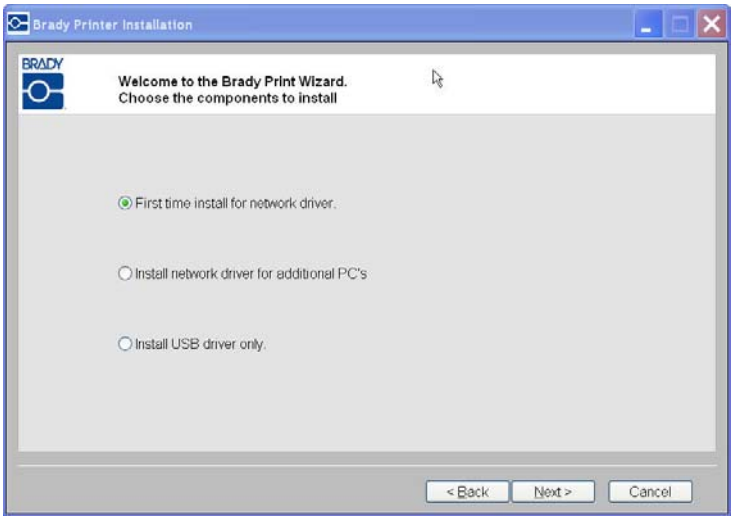
1. Make sure your printer and your PC are **not** connected with a USB cable.
2. Insert the *Brady Printer Drivers CD* into your computer CD drive. The installation wizard launches automatically.
3. Turn the printer on.
4. Click printer model you are installing, then click **Next**.



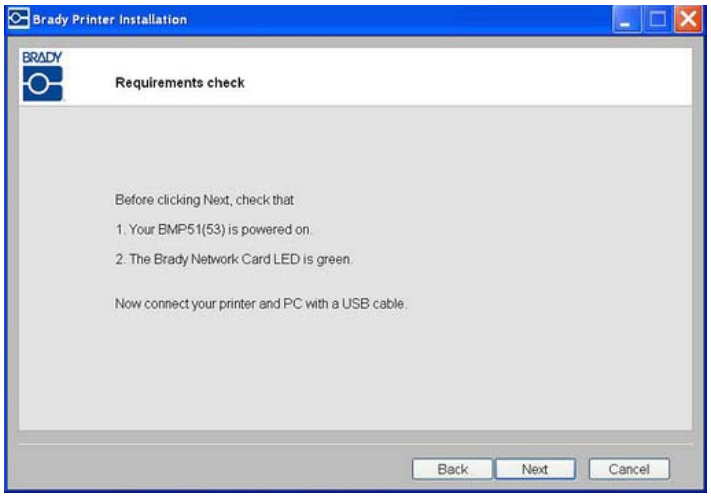
5. If your printer and PC are still connected with a USB cable, **disconnect** it now, then click **Next**.



6. Click **First time install for network driver** (default), then click **Next**.


Brady Printer Installation
BRADY
Welcome to the Brady Print Wizard.
Choose the components to install
First time install for network driver.
Install network driver for additional PC's
Install USB driver only.
< Back
Next >
Cancel

7. Verify that your printer printer is powered on and the Brady Network Card LED is solid green.
8. Connect the printer to your PC with a USB cable.



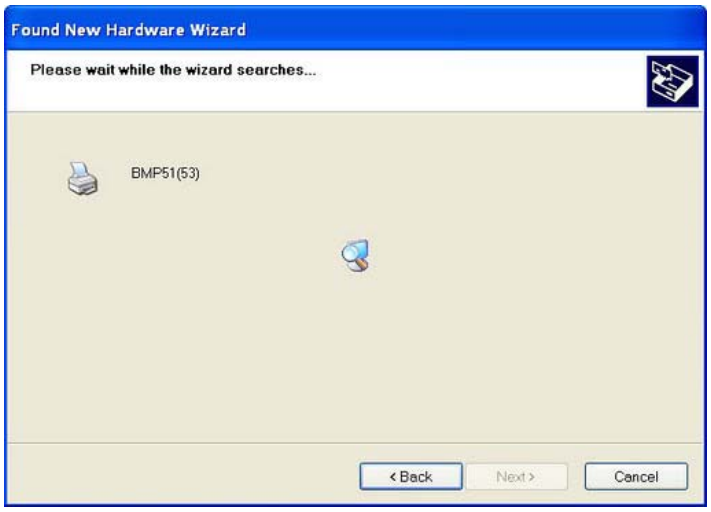
9. If the *Found New Hardware Wizard* displays, continue with the next step, otherwise skip to *Step 16.*
10. Click **Yes, now and every time I connect a device** radio button, then click **Next**.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

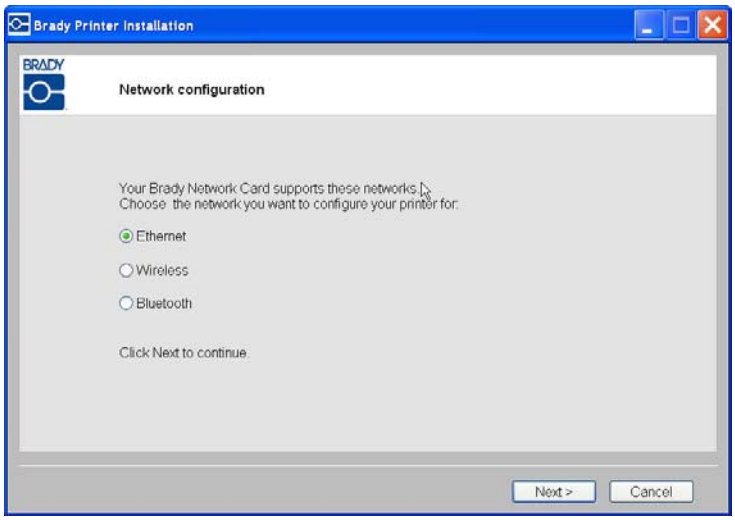
11. Click the radio button **Install software automatically (Recommended)**, then click **Next**.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
BMP51(53)
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

12. When the installation is complete, click **Finish** to close the wizard, then click **Next**.



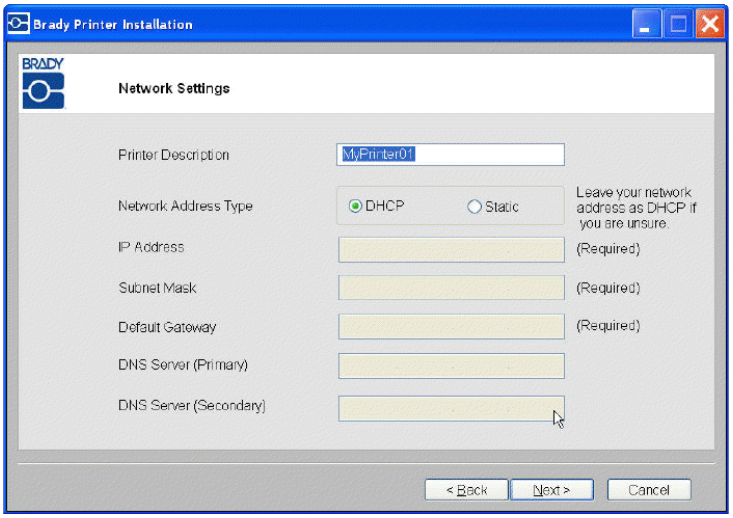
13. Click the radio button for **Ethernet**, then click **Next**.



14. In the *Printer Description* field, enter an easy-to-identify name/description for this network connection. You can use any alphanumeric characters.
15. In the *Network Address Type* field, choose the default **DHCP** protocol.

Note: If you choose Static, you must enter the IP Address, Subnet Mask and Default Gateway fields.

16. Click **Next**.



17. Verify that your printer and PC are connected to the same network, then click **Next**.

Note: To verify that your printer and PC are on the same network, see the connection guidelines shown below.

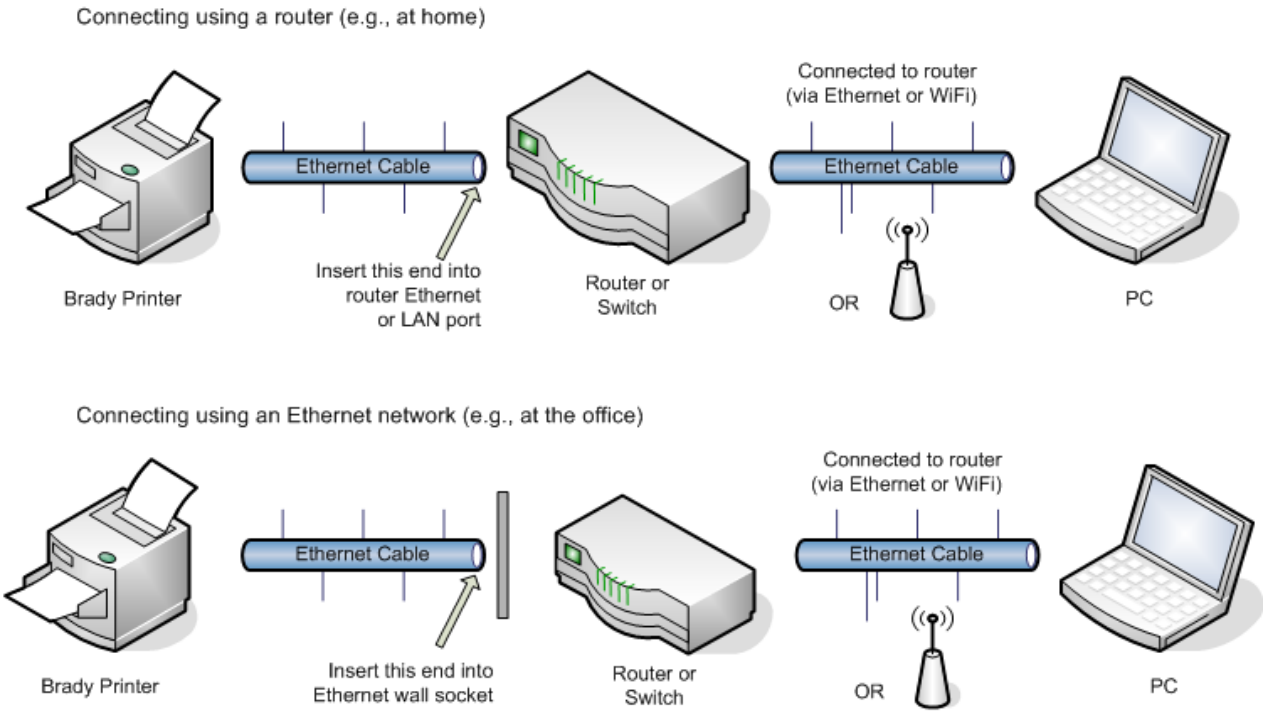
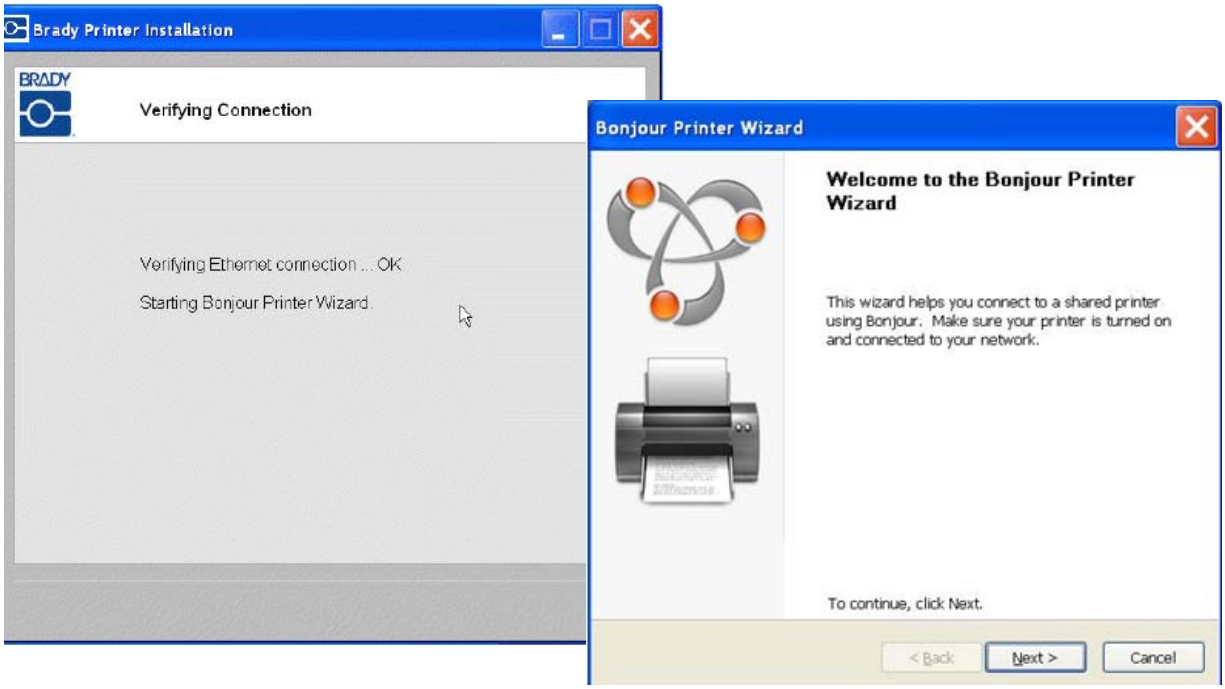


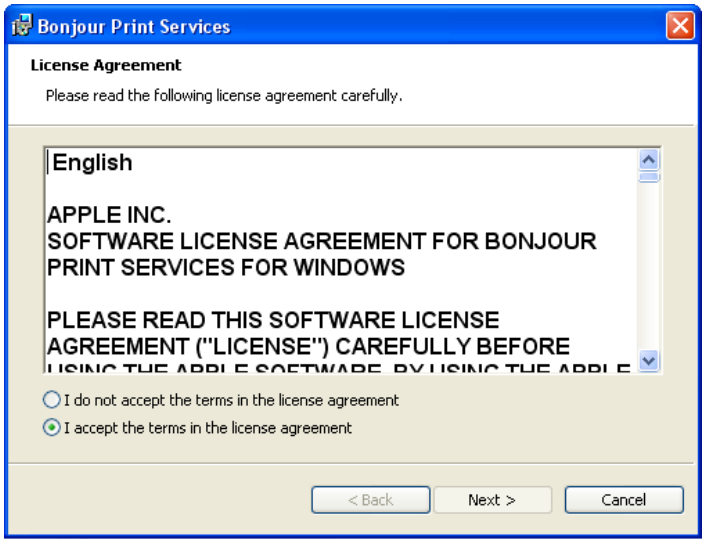
Figure 3. Network Connections

18. When the Ethernet connection is successful, the *Bonjour Printer Wizard* launches automatically. Click **Next**.

Note: The Bonjour program is designed to establish and monitor network printers. The Bonjour Printer Wizard establishes your Brady printer as a network printer.

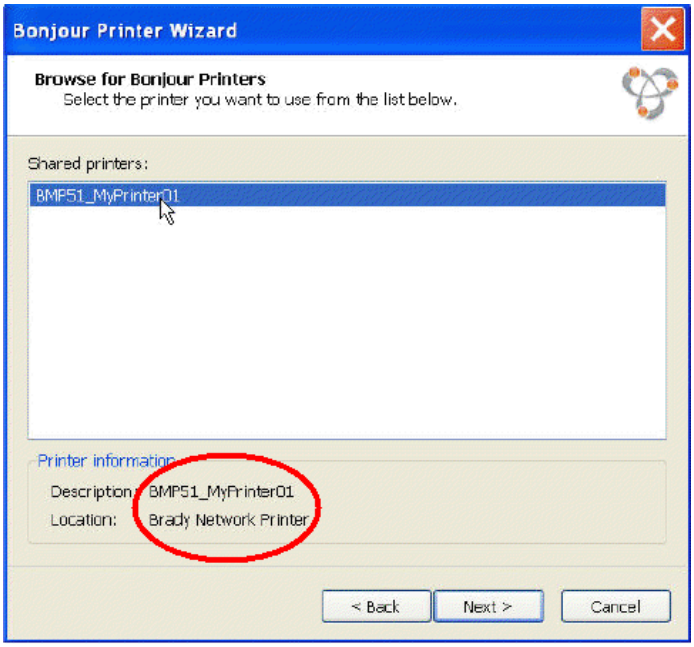

Brady Printer Installation
BRADY
Verifying Connection
Verifying Ethernet connection ... OK
Starting Bonjour Printer Wizard.
Bonjour Printer Wizard
Welcome to the Bonjour Printer Wizard
This wizard helps you connect to a shared printer using Bonjour. Make sure your printer is turned on and connected to your network.
To continue, click Next.
< Back
Next >
Cancel

19. Read the *Apple End User License Agreement*, then click **I accept the terms in the license agreement** and click **Next** to continue.

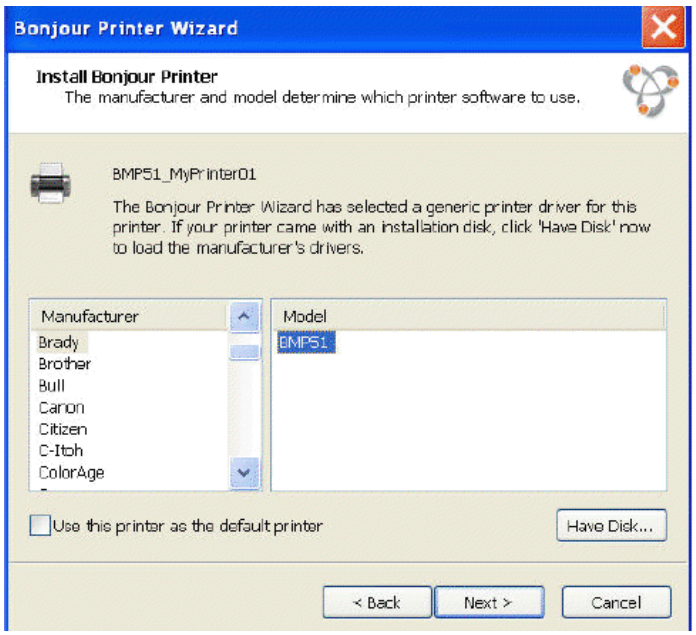

Bonjour Print Services
License Agreement
Please read the following license agreement carefully.
English
APPLE INC.
SOFTWARE LICENSE AGREEMENT FOR BONJOUR PRINT SERVICES FOR WINDOWS
PLEASE READ THIS SOFTWARE LICENSE AGREEMENT ("LICENSE") CAREFULLY BEFORE
I do not accept the terms in the license agreement
I accept the terms in the license agreement
< Back
Next >
Cancel

20. Click the assigned network printer name, then click **Next**.

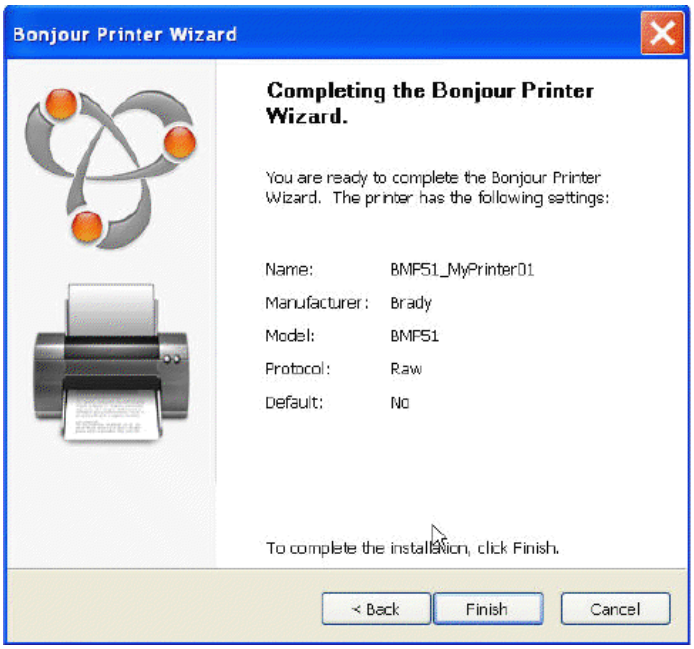
Note: For easier identification, the name or description you assigned in *Step 14.* displays in the lower left corner of the screen.



21. In the *Manufacturer* field, click **Brady** (the manufacturers are listed in alphabetical order).
22. In the *Model* field, click the printer to install, then click **Next**.



23. When the *Bonjour Printer* wizard completes, click **Finish**.



24. When the Brady Printer Installation is completed click **Finish** to exit the wizard.

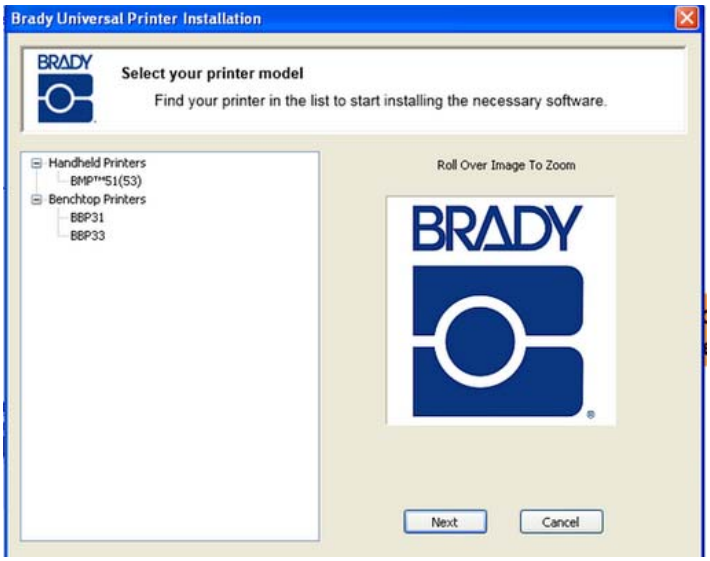
Install Additional PC's using Brady Network Card Utility

Use this installation process if your printer has been configured previously but you now want to use another PC to send print jobs to the printer.

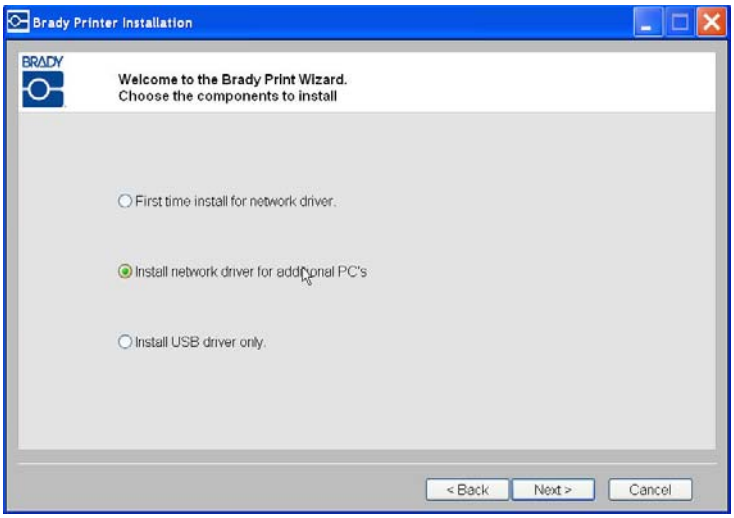
Note: Your additional PC must be on the same network as the printer. If not, it will not be detected during installation.

Once the Brady Network Card has been configured for Ethernet or WiFi, you can install those network drivers on additional PC's.

1. Insert the *Brady Universal Printer Driver CD* into your computer CD drive. The installation wizard launches automatically.
2. Click the printer model you are installing, then click **Next**.

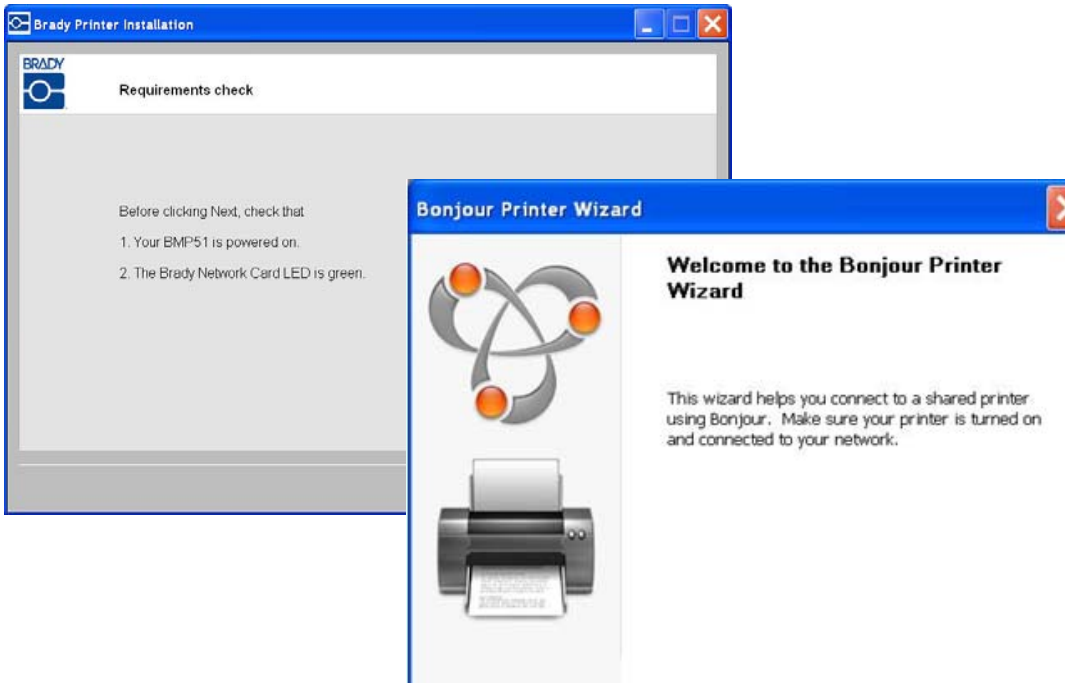


3. Click *Install network driver for additional PC's*, then click **Next**.


Brady Printer Installation
Welcome to the Brady Print Wizard.
Choose the components to install
First time install for network driver.
Install network driver for additional PC's
Install USB driver only.
< Back
Next >
Cancel

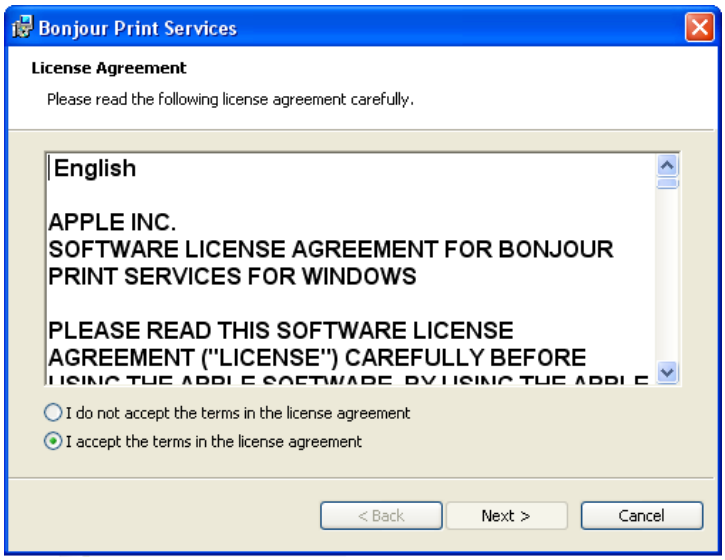
4. Verify that the printer is powered on and the Brady Network Card is functioning properly (green light is on), then click **Next**. The Bonjour wizard lauches automatically.

Note: The Bonjour program is designed to establish and monitor network printers. The Bonjour Printer Wizard establishes your Brady printer as a network printer.


Brady Printer Installation
BRADY
Requirements check
Before clicking Next, check that
1. Your BMP51 is powered on.
2. The Brady Network Card LED is green.
Bonjour Printer Wizard
Welcome to the Bonjour Printer Wizard
This wizard helps you connect to a shared printer using Bonjour. Make sure your printer is turned on and connected to your network.

5. Click **Next**.

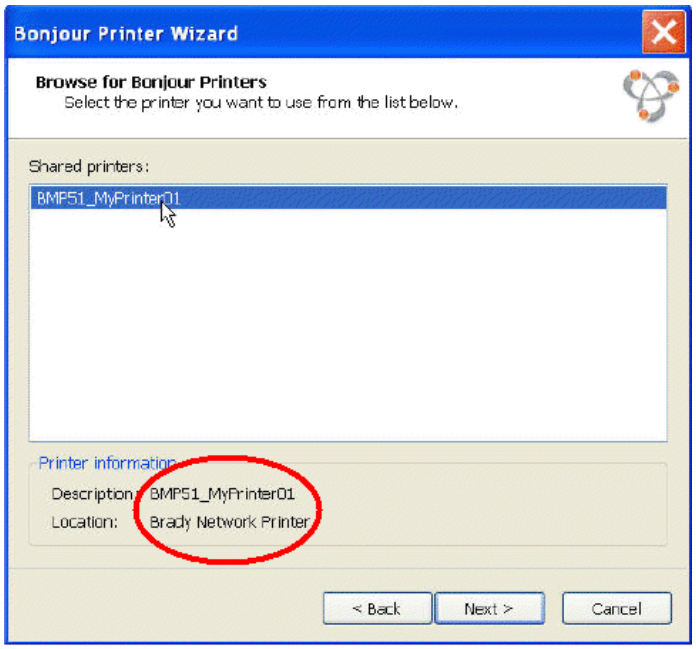
6. Read the Apple End User License Agreement, then click **I accept the terms in the license agreement**.
7. Click **Next** to continue.


Bonjour Print Services
License Agreement
Please read the following license agreement carefully.
English
APPLE INC.
SOFTWARE LICENSE AGREEMENT FOR BONJOUR PRINT SERVICES FOR WINDOWS
PLEASE READ THIS SOFTWARE LICENSE AGREEMENT ("LICENSE") CAREFULLY BEFORE
I do not accept the terms in the license agreement
I accept the terms in the license agreement
< Back
Next >
Cancel

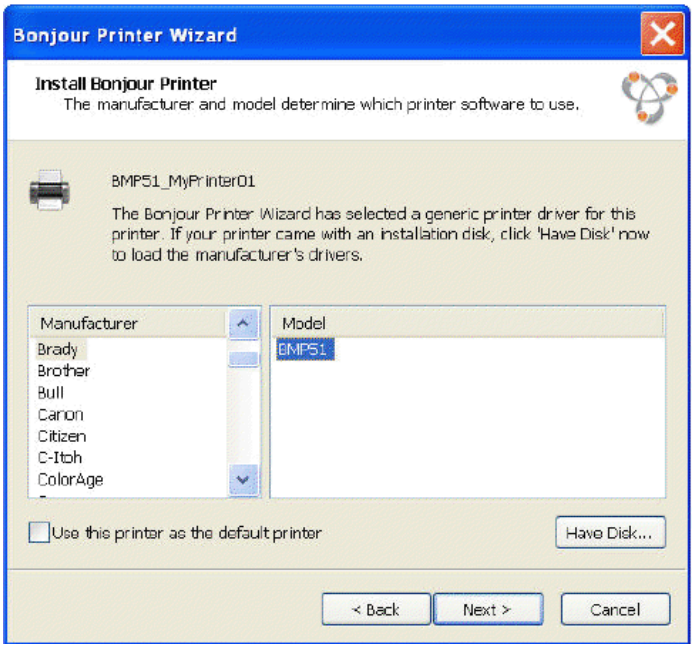
8. Click the assigned network printer name.

Note: For easier identification, the name or description you assigned previously displays in the lower left corner of the screen.

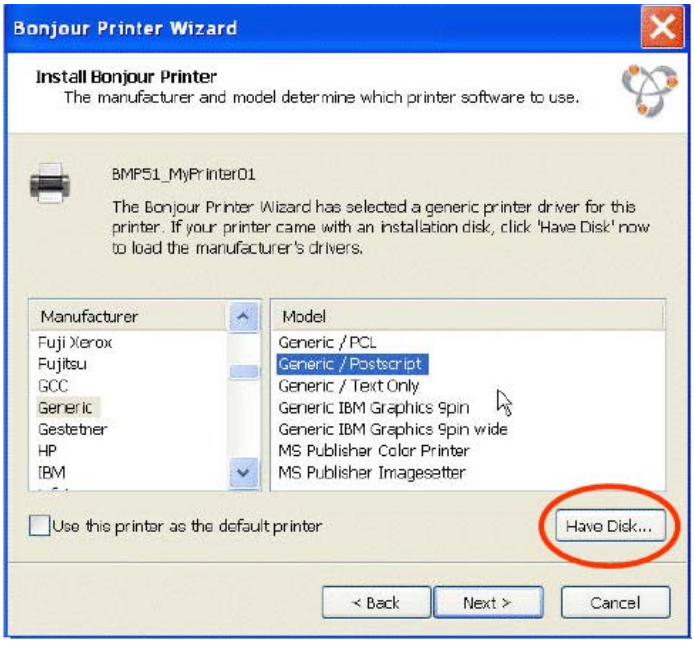
9. Click **Next**.



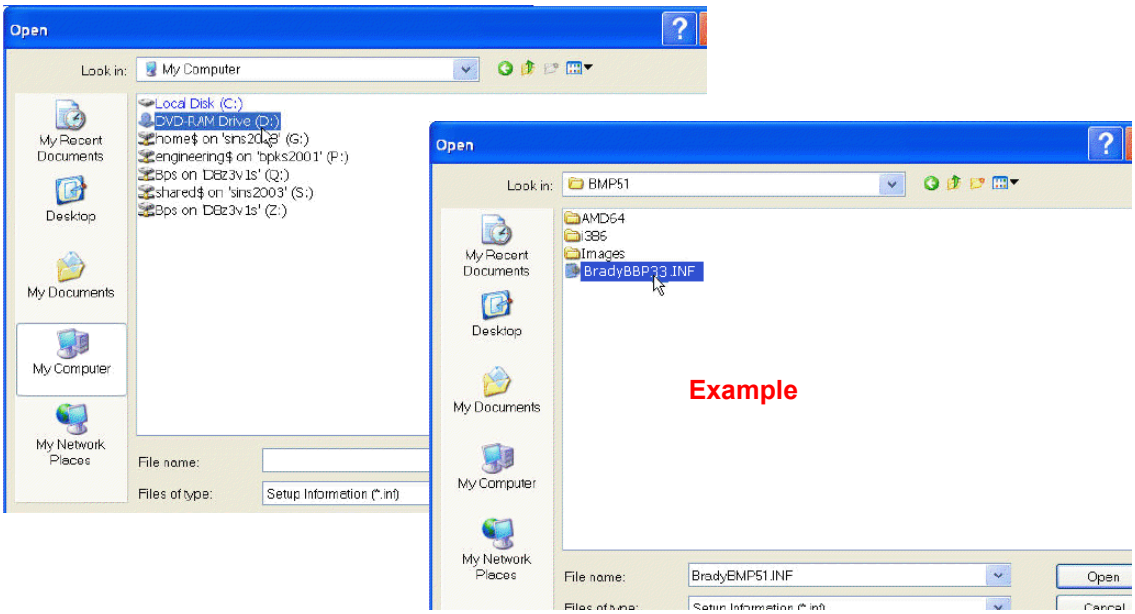
10. In the *Manufacturer* field, click **Brady** (the manufacturers are listed in alphabetical order).
11. In the *Model* field, click the printer to install, then click **Next**.



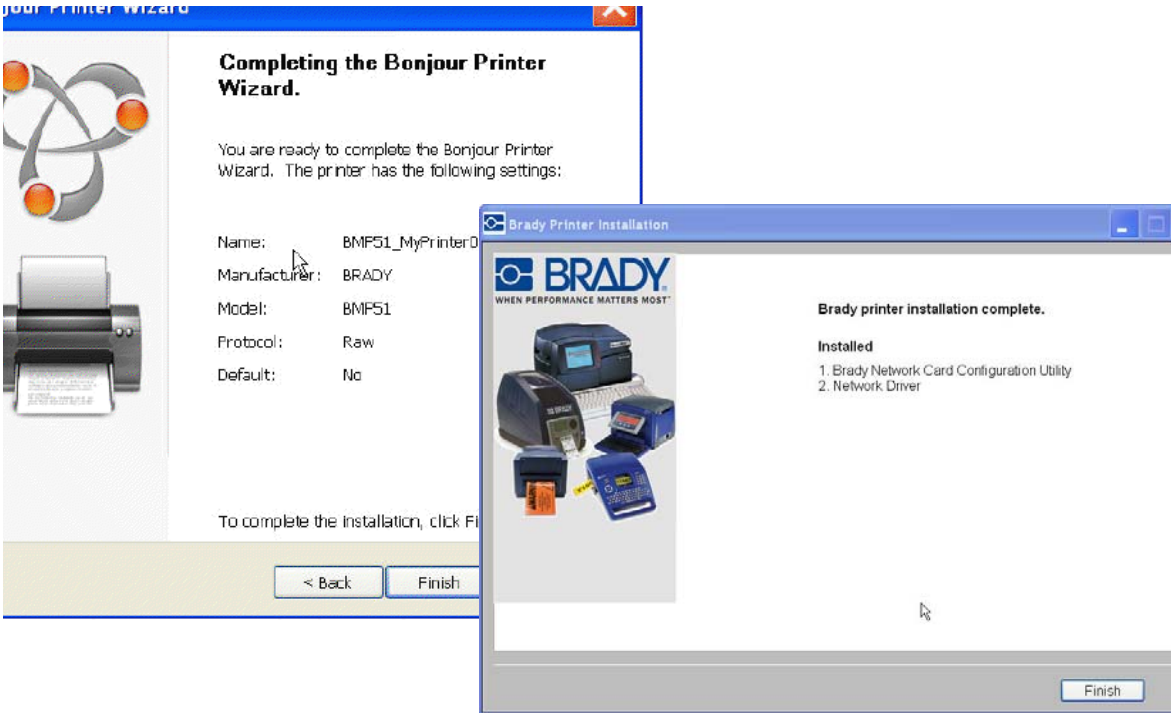
12. If Brady cannot be found in the *Manufacturer* field, click **Have Disk**.



13. Browse the supplied CD and locate the **.INF** file for your printer model. The example screen shows the .inf file for installing a BBP33 printer.



14. When the Bonjour Printer wizard completes, click **Finish**.
15. When the Brady Printer Installation is completed, click **Finish** to exit the wizard.



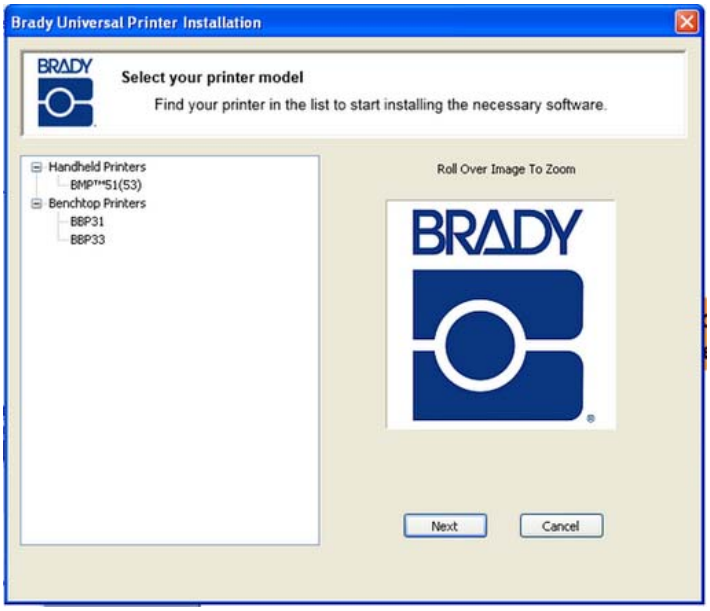
Install USB Driver (only)

Use this installation process if you intend to send print jobs to the printer from a PC using USB cable only.

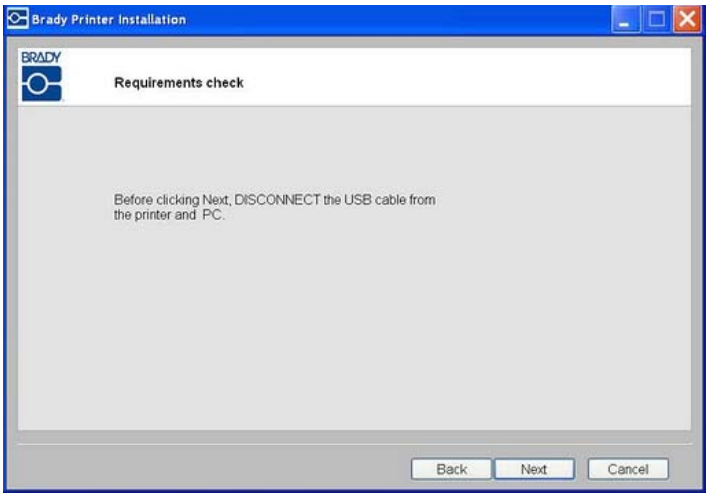
This procedure installs the printer driver for your Brady printer and installs the Brady Network Card (BNC) configuration utility.

To install the printer driver and the BNC Configuration Utility:

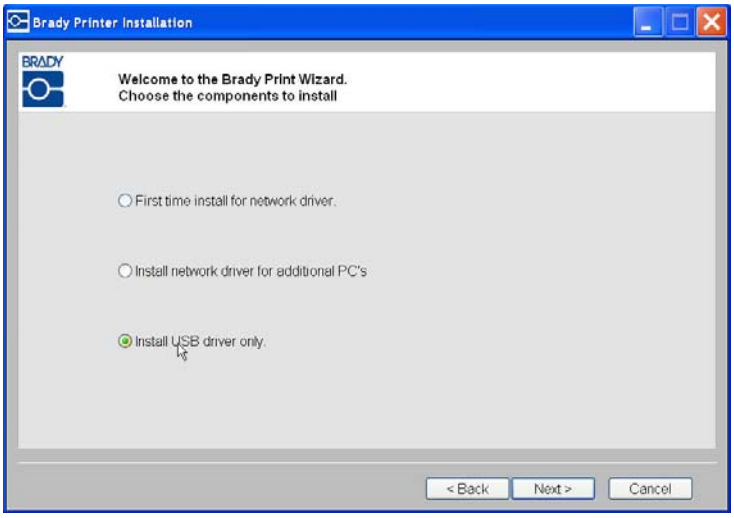
1. Make sure your printer and your PC are **not** connected with a USB cable.
2. Insert the *Brady Printer Drivers CD* into your computer CD drive. The installation wizard launches automatically.
3. Turn the printer on.
4. Click the printer model you are installing, then click **Next**.



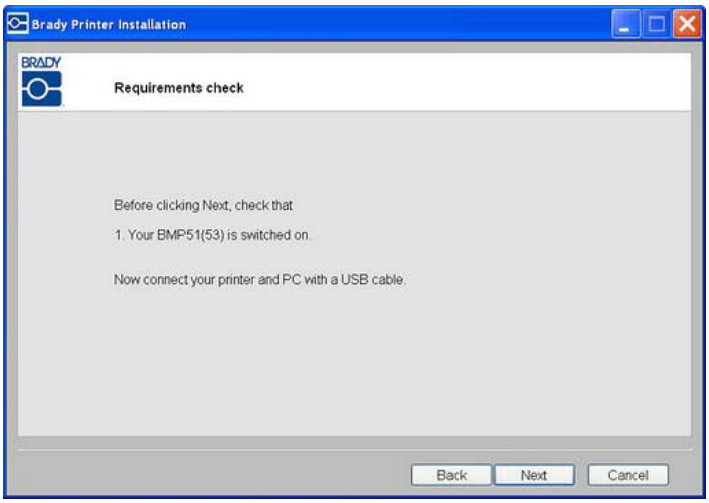
5. If your printer and PC are still connected with a USB cable, **disconnect** it now, then click **Next**.



6. Click the radio button to **Install USB Driver Only**, then click **Next**.


Brady Printer Installation
BRADY
Welcome to the Brady Print Wizard.
Choose the components to install
First time install for network driver.
Install network driver for additional PC's
Install USB driver only.
< Back
Next >
Cancel

7. Connect the printer to your PC with a USB cable.



8. If the *Found New Hardware Wizard* displays, continue with the next step, otherwise skip to *Step 10.*
9. Click the radio button **Yes, now and every time I connect a device**, then click **Next**.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

10. Click the radio button **Install software automatically (Recommended)**, then click **Next.**

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
BMP51(53)
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

11. When the install is complete, click **Finish** to close the wizard, then click **Next**.

12. When the *Brady Network Card Configuration Utility* and *USB Driver* are successfully installed, click **Finish**.

Install Adhoc Connection (first time)

Use this installation process to connect your PC to the printer, wirelessly, without a router. This is known as a peer-to-peer connection. The wireless connection allows you to send print jobs to the printer from outside of the office.

Setting up adhoc printing involves the following:

- Installing a USB driver.
- Establishing an adhoc connection.
- Installing a network driver.

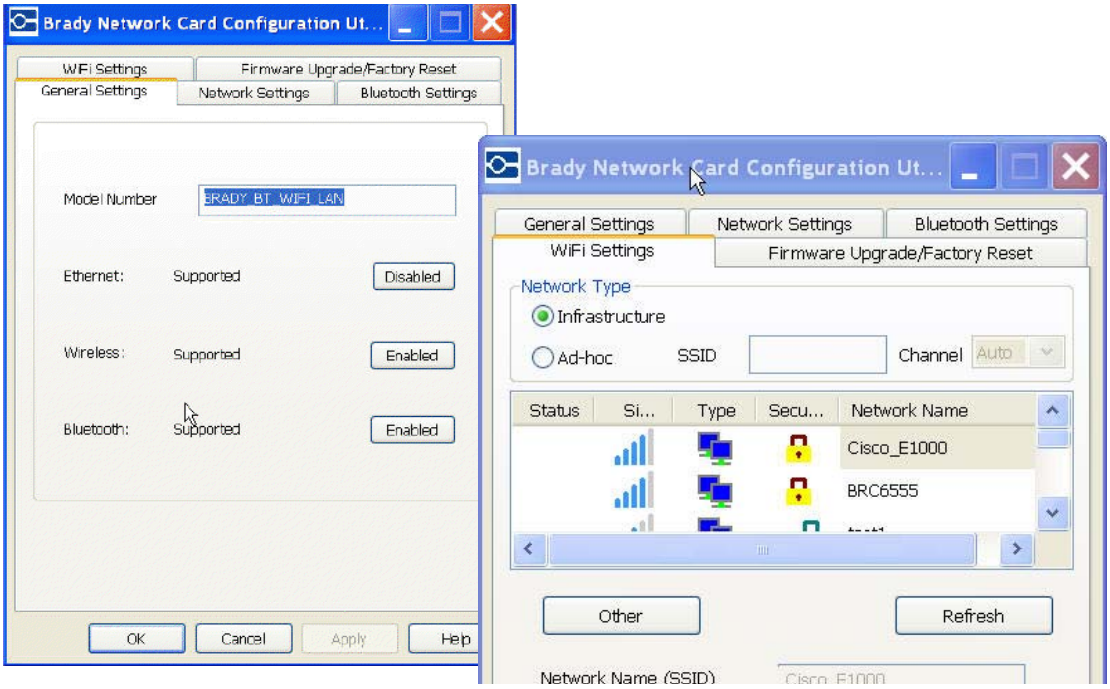
Install USB Driver

1. Go to *"Install USB Driver (only)" on page 2-39* and follow Steps 1 through 10.

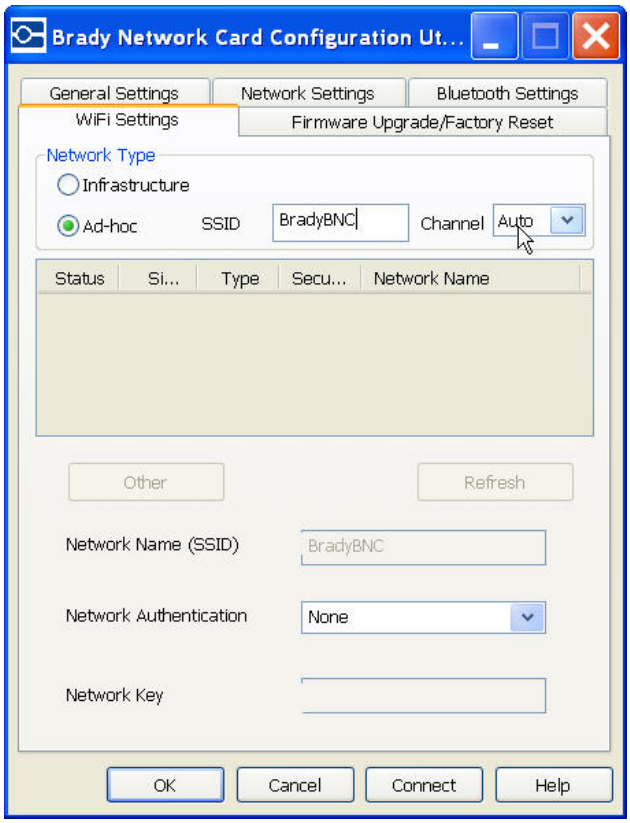
Establish Adhoc Connection

An ad hoc network is a temporary connection between computers and devices used for a specific purpose, such as printing documents from a Brady printer. Ad hoc networks can *only* be wireless.

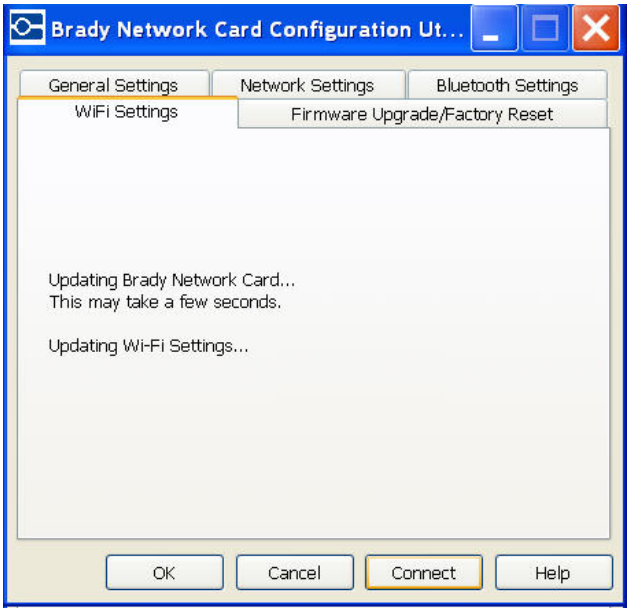
1. Open the *Brady Network Card Configuration Utility* by choosing: **Start>Programs>Brady>Brady Network Card>Brady Network Card Configuration Utility**
2. Click **General Settings** tab (if not already displayed).
3. Verify that *Wireless* is enabled. If disabled, click **Enable** to enable WiFi settings. The application performs a WiFi scan and displays a list of available networks.



4. Click the radio button **Ad-hoc**, enter a **SSID** (network name) and set *Channel* to **Auto** (default).

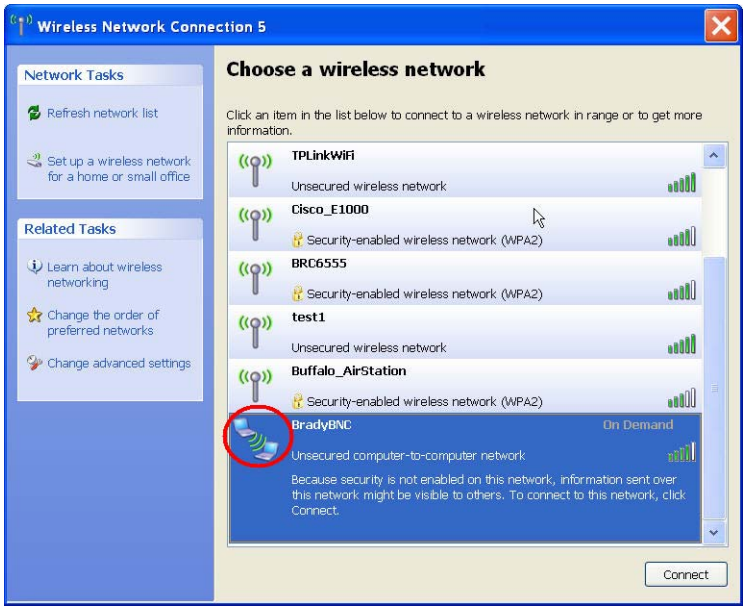


5. Click **Connect**. The WiFi settings update.



To view wireless networks detected by the PC:

1. Choose **Start>Connect To>Wireless Network Connection>View Wireless Networks**.
2. Click the **SSID** (network name) entered previously. The icon indicates that it is a peer-to-peer connection.
3. Click **Connect**. The adhoc connection is established.


Wireless Network Connection 5
Network Tasks
Refresh network list
Set up a wireless network for a home or small office
Related Tasks
Learn about wireless networking
Change the order of preferred networks
Change advanced settings
Choose a wireless network
Click an item in the list below to connect to a wireless network in range or to get more information.
TPLinkWiFi
Unsecured wireless network
Cisco_E1000
Security-enabled wireless network (WPA2)
BRC6555
Security-enabled wireless network (WPA2)
test1
Unsecured wireless network
Buffalo_AirStation
Security-enabled wireless network (WPA2)
BradyBNC
On Demand
Unsecured computer-to-computer network
Because security is not enabled on this network, information sent over this network might be visible to others. To connect to this network, click Connect.
Connect

Install Network Driver

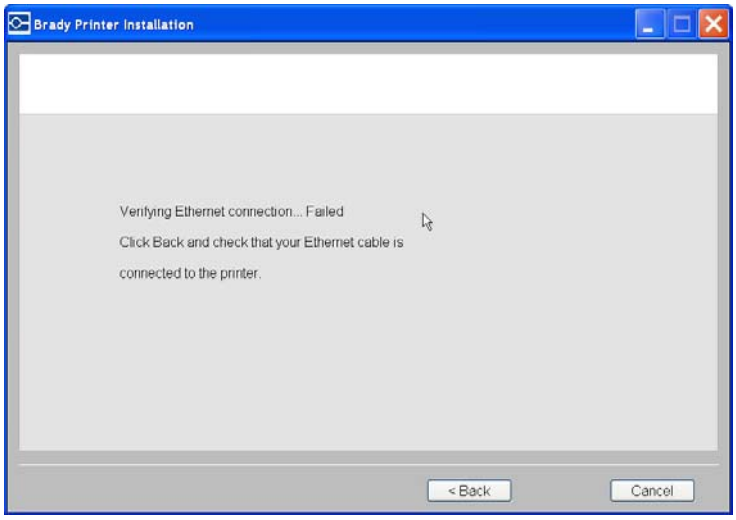
To install network drivers, refer to Steps 1 through 13 in *"Install Additional PC's using Brady Network Card Utility" on page 2-34*).

Troubleshooting Brady Network Card

Ethernet Connection Failed

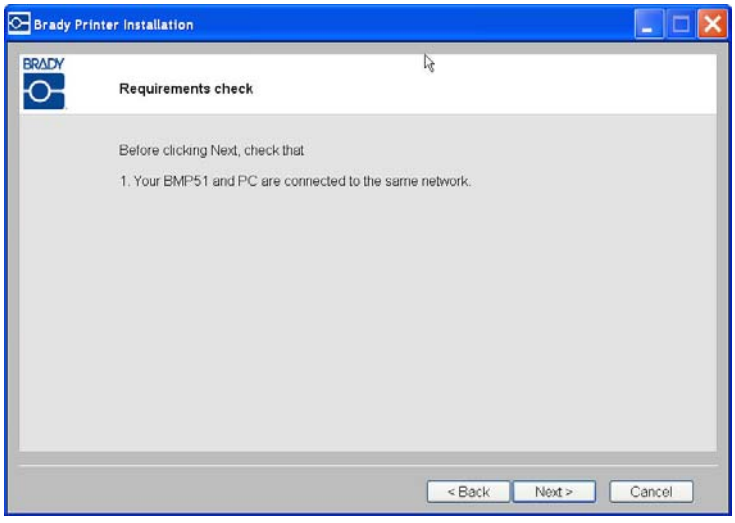
If Ethernet connection fails, an error message displays. The Ethernet connection can fail if the PC and printer are not on the same network.

1. Click **Back**.



2. Verify that your printer and PC are connected to the same network (see the connection diagram in *Figure 3* on page 30).
3. Click **Next** to continue with installation.

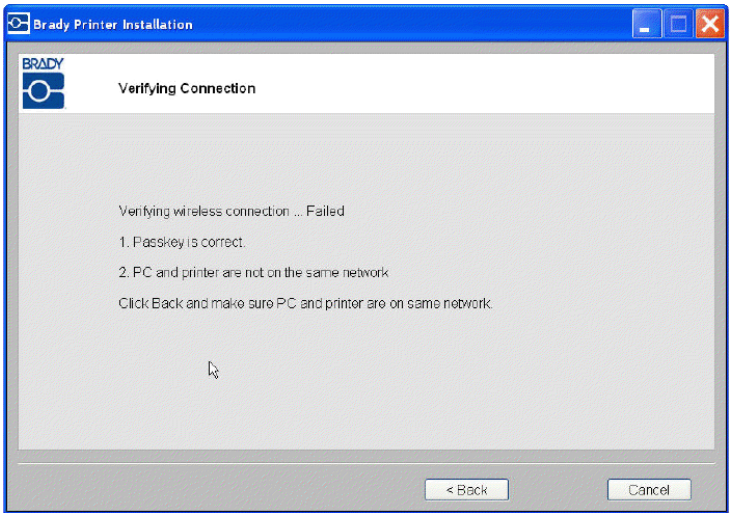
Note: If the same network has been selected and the connection still fails, your PC and printer may be on different subnets, or a firewall is blocking the connection. In this case, contact your network administrator.



WiFi Connection Failed

WiFi connection can fail for two reasons:

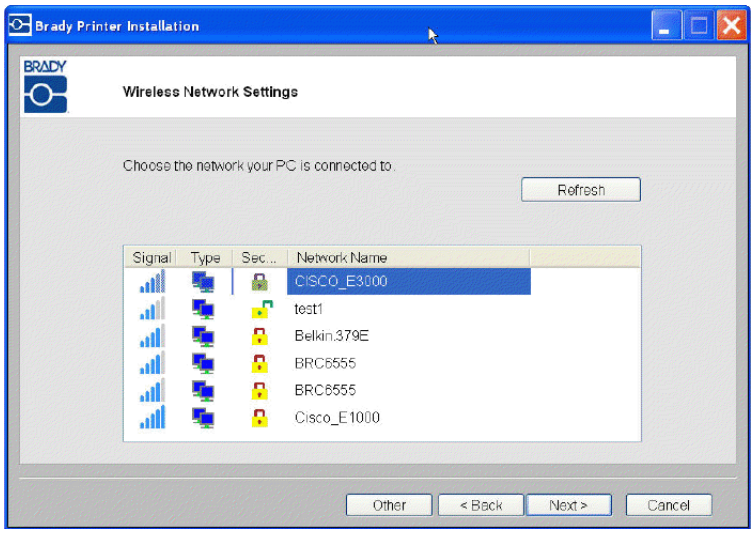
- The PC and printer are not on the same network.
- A wrong passkey or security code was entered.


Brady Printer Installation
Verifying Connection
Verifying wireless connection ... Failed
1. Passkey is correct.
2. PC and printer are not on the same network
Click Back and make sure PC and printer are on same network.
< Back
Cancel

PC and Printer not on Same Network

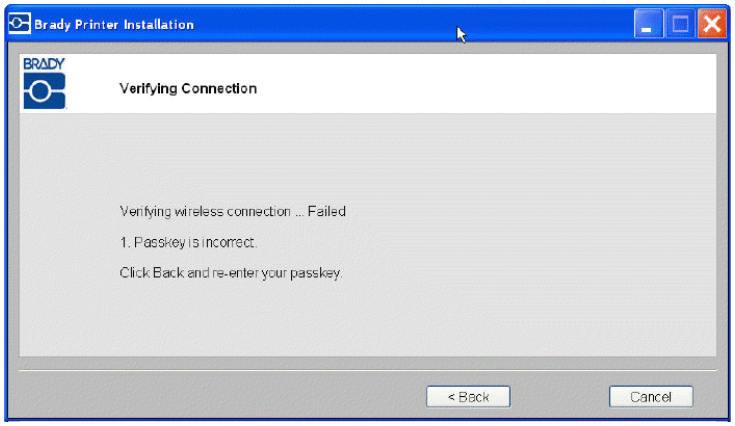
1. Click **Back**.
2. Select the same network to which your PC is currently connected.
3. Click **Next** to continue with installation.

Note: If the same network has been selected and connection still fails, your PC and printer may be on different subnets, or a firewall is blocking the connection. In this case, contact your network administrator.

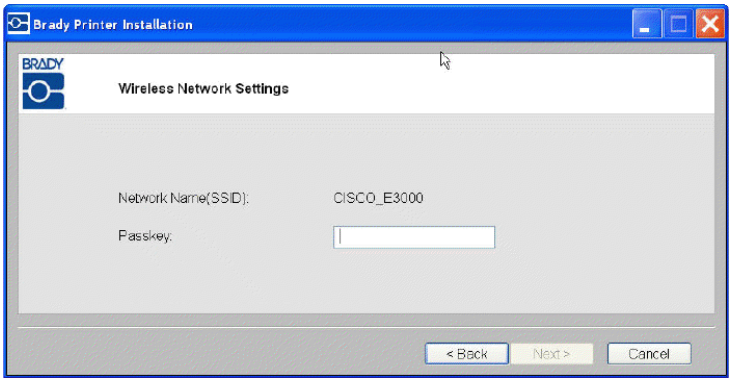


Wrong Passkey or Security Mode

1. Click **Back**.

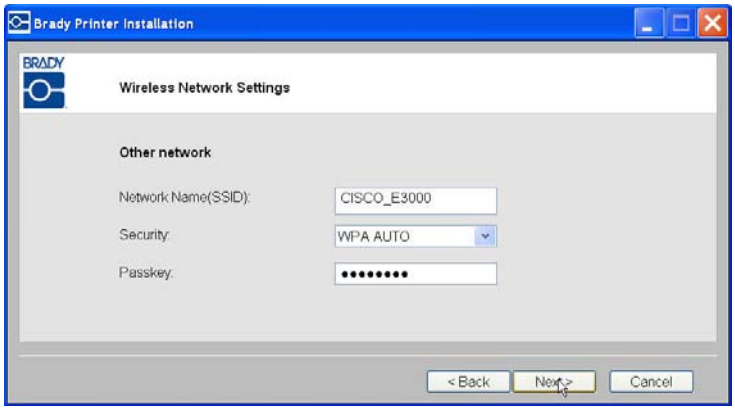


2. Re-enter the correct passkey.



Note: If you selected 'Other' in the network list, you need to enter the security mode as well.

3. Click **Next** to continue with installation.



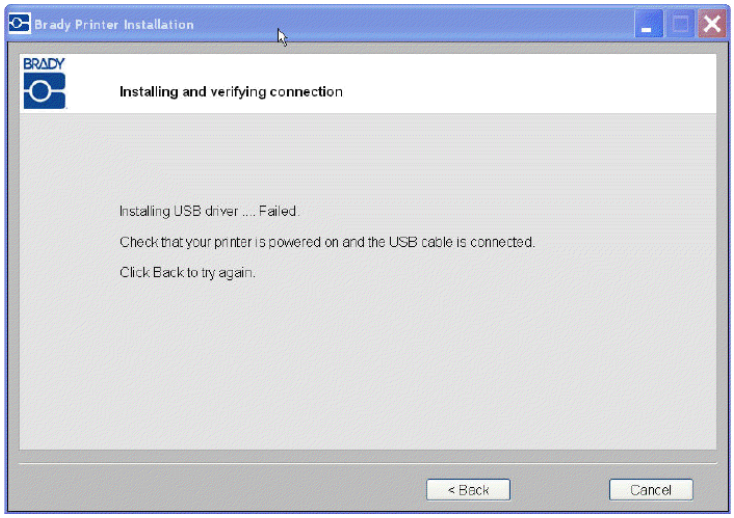
USB Connection Failed

The USB connection could fail for two reasons:

- The printer is powered OFF.
- The USB cable is not connected.

If the connection fails:

1. Click **Back**.
2. Power **ON** the printer and connect the USB cable.
3. Click **Next** to try again.


Brady Printer Installation
Installing and verifying connection
Installing USB driver .... Failed.
Check that your printer is powered on and the USB cable is connected.
Click Back to try again.
< Back
Cancel

Using Brady Network Card Configuration Utility

When the network drivers are installed, a configuration utility is also installed and is automatically placed in Programs under the Start button of your Windows program. Use the configuration utility to adjust or change the configuration you initially installed.

To access the utility:

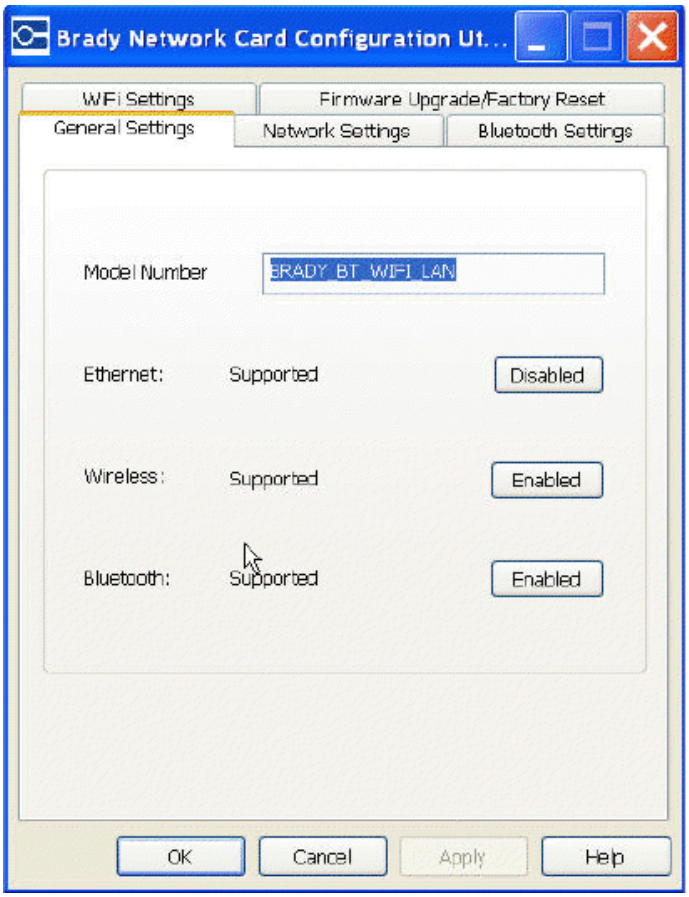
1. Choose **Start>Programs>Brady>Brady Network Card>Brady Network Card Configuration Utility**. One dialog box iswith multiple tabs is displayed.

General Settings

On the *General Settings* tab, the model number of the Brady Network Card is identified and the previously defined connections listed.

To change the status of each supported configuration:

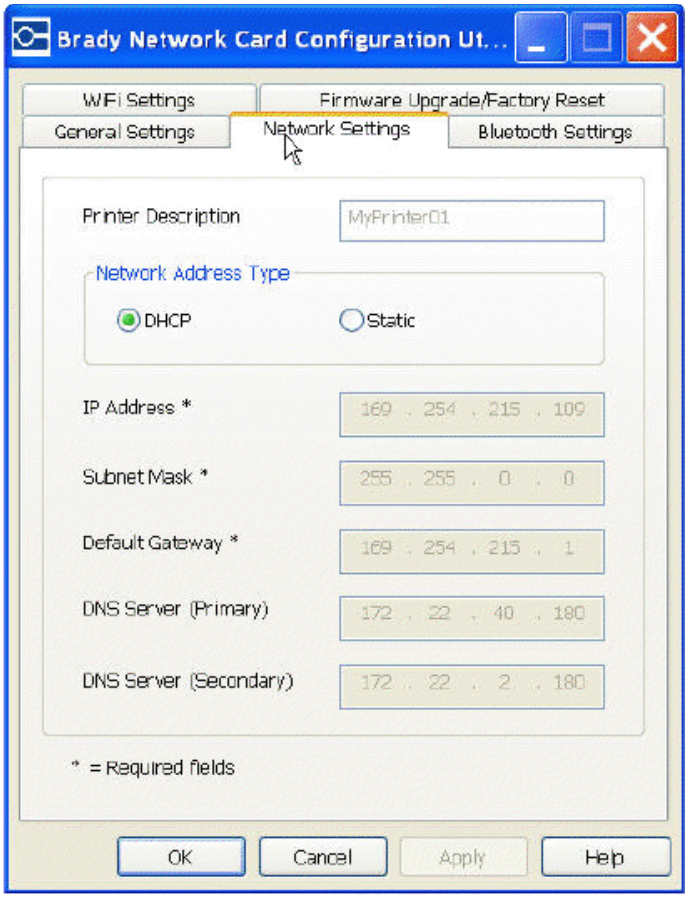
1. Click the **Enabled/Disabled** button to change the current state of the connection.
2. Click **OK** to accept changes and exit the dialog box.



Network Settings

The *Network Settings* tab displays the unique name you gave to the printer and the Address Type used by it. DHCP is the recommended setting.

Note: If Static is selected, you must enter the IP Address, Subnet Mask, and Default Gateway.



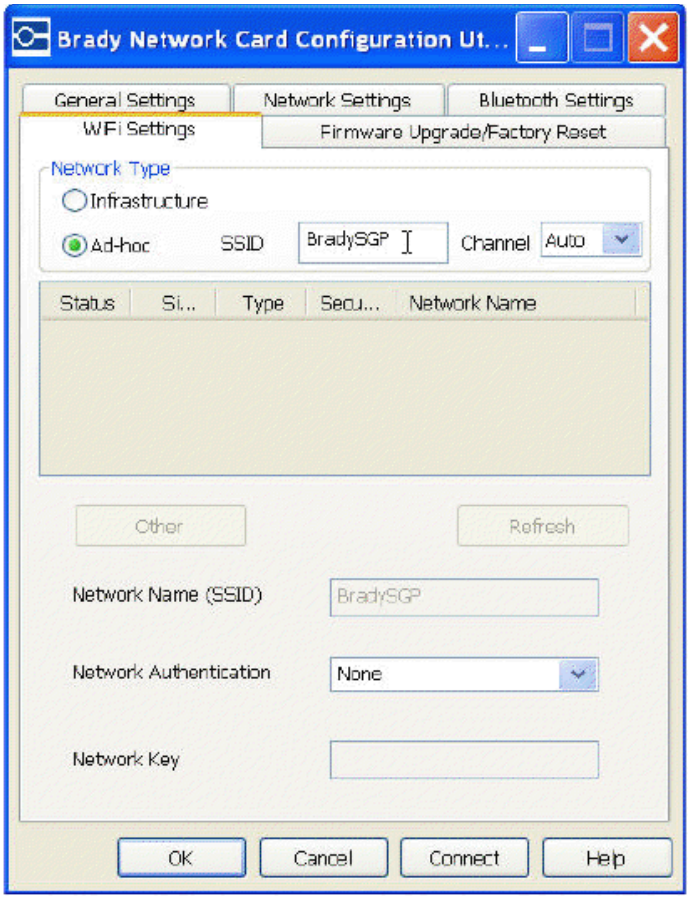
WiFi Settings

The WiFi Settings tab displays:

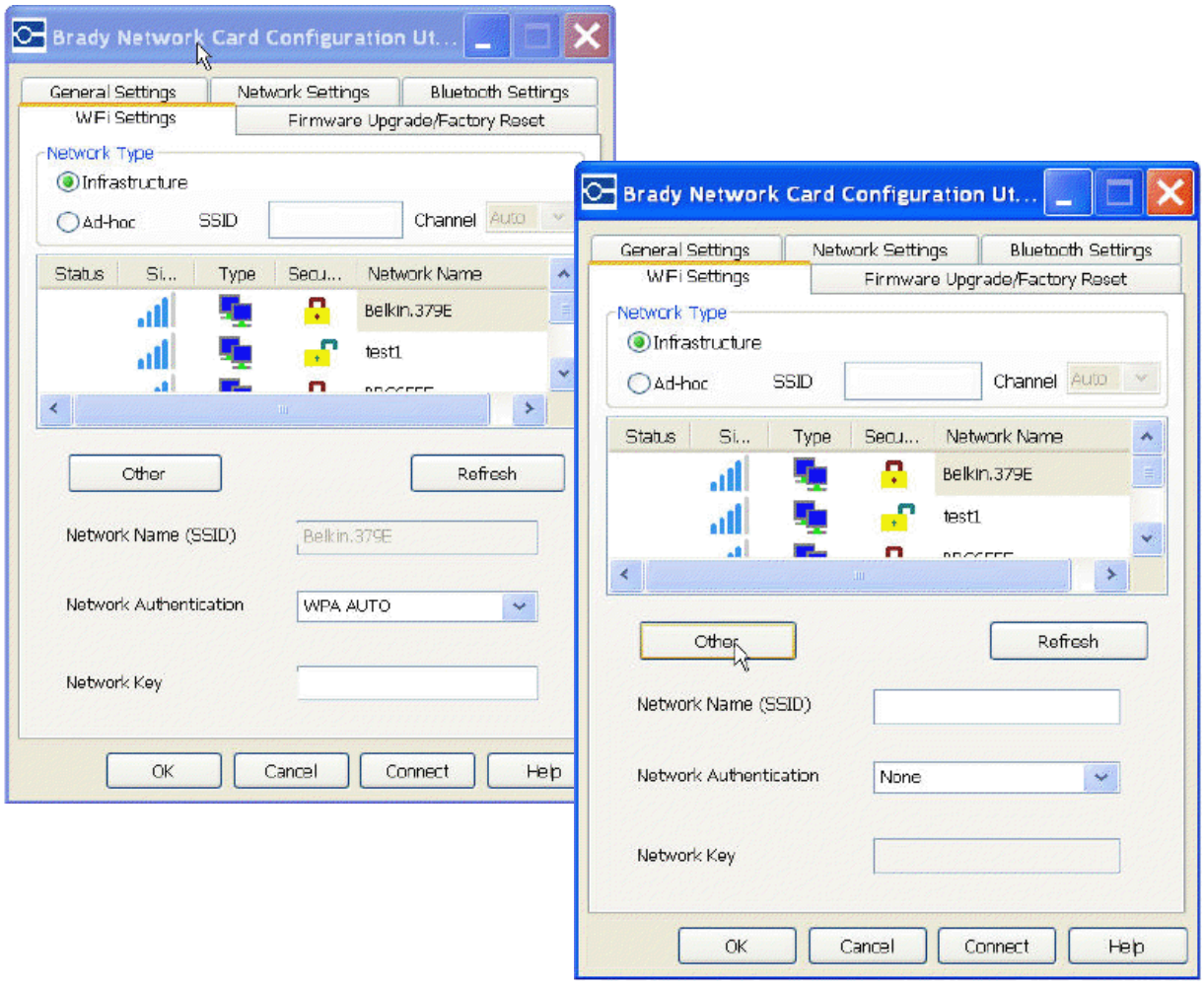
- The network type - Infrastructure vs. Adhoc.
- The currently connected network.
- Security settings for the currently connected network.

To setup WiFi settings:

1. Choose a network type:
   - Select Infrastructure when your printer is connected to the PC using a router. This is the most common case.
   - Select Ad-hoc to connect your printer to the PC directly without a router.
2. Enter the **SSID** (network name) and **Channel** (leave at default Auto).



3. If you selected:
   - A network from the list, enter the network mode **or** re-enter the network passkey. The SSID (Network Name) field is non-editable.
   - *Other*, you can enter a **Network Name**.
4. Click **OK** to accept changes and exit the dialog box.



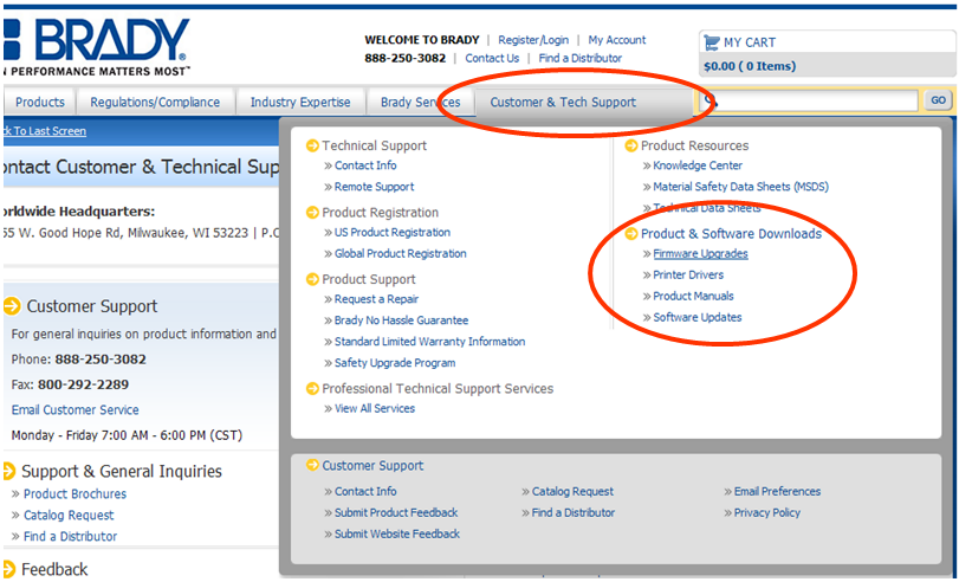
Firmware Upgrade/Factory Reset

You can upgrade your Brady Network Card through the Firmware Upgrade/ Factory Reset tab of the Configuration Utility.

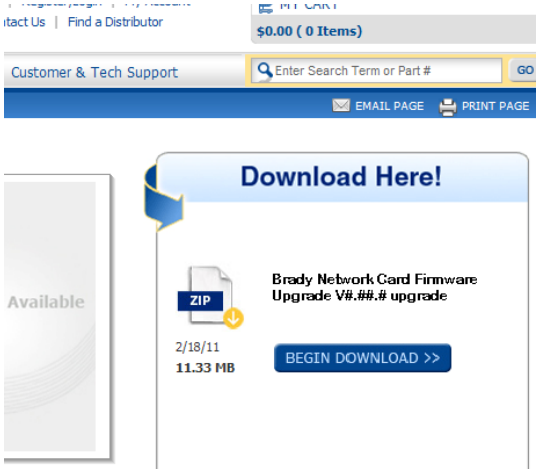
Upgrade Firmware

To upgrade firmware:

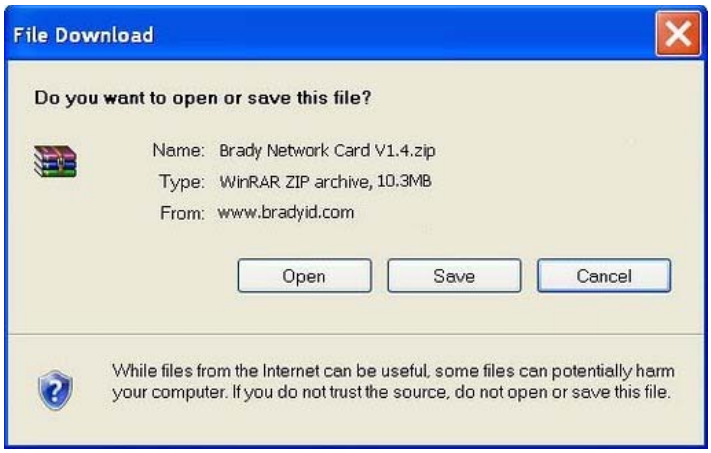
1. Access the Brady website at www.bradyid.com.
2. Click **Customer & Tech Support**
3. Under *Product & Software Downloads*, click the the **Brady Network Card** firmware upgrade.



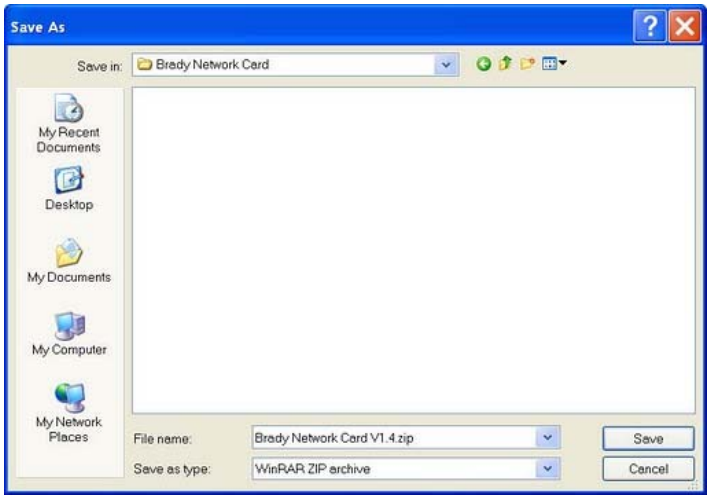
4. In the list presented, select the upgrade you want to download, then click **BEGIN DOWNLOAD**.



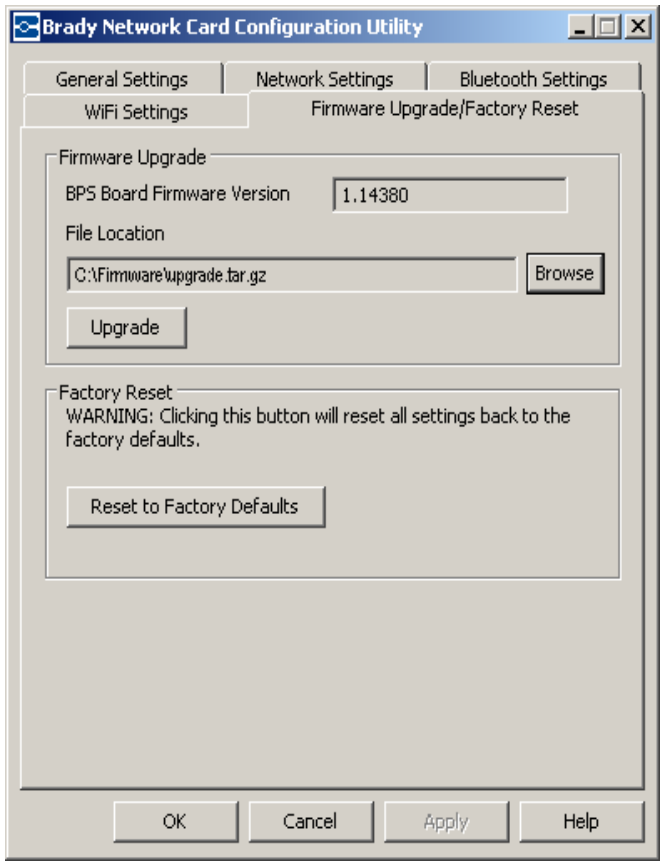
5. On the *File Download* screen, click **Save**.


File Download
Do you want to open or save this file?
Name: Brady Network Card V1.4.zip
Type: WinRAR ZIP archive, 10.3MB
From: www.bradyid.com
Open
Save
Cancel
While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save this file.

6. Using standard Windows procedures, determine the directory where you want to save the download data.



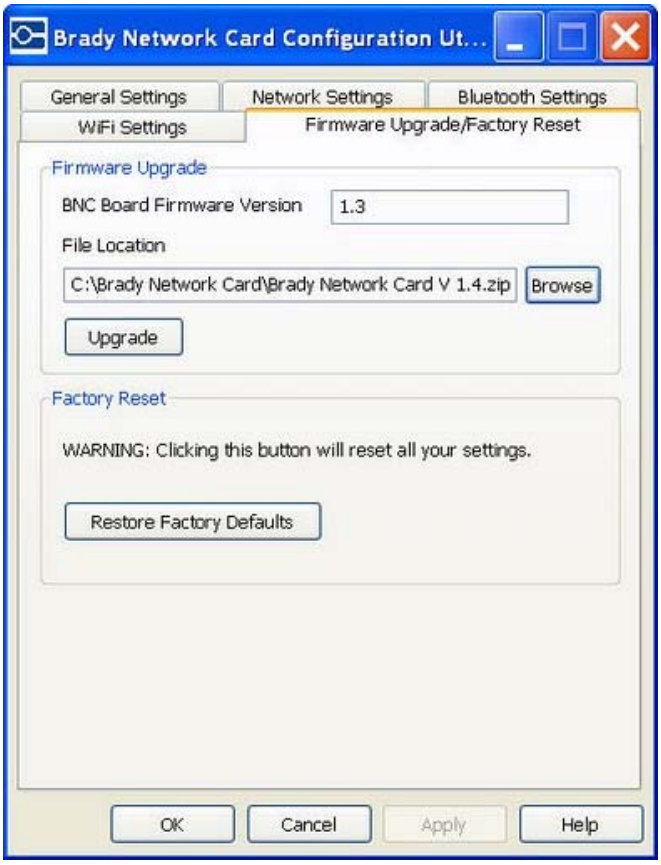
7. On the *Firmware Upgrade* tab of the *Configuration Utility* screen, click **Browse**.
8. Find the directory in which you saved the download ZIP file, then click **Open**.
9. On the *Firmware Upgrade/Factory Reset* tab, click **Upgrade**. The upgrade program information is automatically installed on your system.
10. Click **OK** to accept changes and exit the dialog box.



Factory Reset

To return all settings to the original Factory settings (defaults):

1. On the *Firmware Upgrade/Factory Reset* tab of the *Configuration Utility*, click **Reset to Factory Defaults**. A warning message displays indicating all previous defined settings will be removed.
2. Click **OK** on the warning message.
3. Click **OK** on the dialog box to accept the changes and exit the dialog box. The previous settings are removed.
4. You can now reconfigure the network and card configurations.



3 User Interface Menu

The User Interface (UI) menu provides feedback and also allows you to access and change printer settings, printer status and tools. A 5-way navigation keypad lets you navigate through the menu structure to choose the option(s) you want.

In *Ready* mode, the UI menu indicates printer status and displays estimated remaining material and ribbon. In *Menu Selection* mode, the display changes to a navigation-type menu. Navigation is divided into 6 major functions:

- Cut Media (displays only for printers with an autocutter)
- Status Info
- Output Settings
- Printer Settings
- Tools
- USB Flash Drive

Cut Media

This is used for printers with an autocutter. Selecting **Cut Media** from the menu sends a signal to the printer telling it to cut the media.

To set the cut option:

1. Press to go to the navigation menu. **Cut Media** is the first option.
2. When you are ready to cut, press OK. The printer cuts at the current position of the media.

   Note: The menu stays on **Cut Media** until you exit the menu.

3. When done, press ◀ to exit to the main menu.

Status Info

Status Info includes information about the printer configuration and fonts. From this menu, you can also print a configuration label, font list or graphics list.

To view system information:

Note: Press ◀ to exit a menu at any time.

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Status Info**, then press OK.
3. Press ▲ or ▼ and choose from one of the following options, then press OK:

   Note: For print options, use continuous media to get the best results.

   - **Info**: Displays the current application and firmware version.
   - **Print Configuration**: Prints current printer configuration.
   - **Show Font List**: Displays list of available fonts. The list is not displayed in individual font styles.
   - **Print Font List**: Prints list of available fonts in their own font style.
   - **Show Graphics List**: Displays list of imported graphics.
   - **Print Graphics List**: Prints list of imported graphics. Does not print a picture of the actual graphic.
4. When done, press ◀ twice to exit to the main menu.

Output Settings

Output Settings let you set the print energy and print speed. You can also set when you want to tear/cut the label, set mirror printing on or off and change the horizontal and vertical offset.

Note: If password protection has been implemented, you will need to enter the password to have access to these functions.

Print Energy

Optional print energy settings are set automatically by the smart cell for the installed media and should only be changed if you are experiencing problems. For example, if your printing is spotty, you may want to increase the print energy to make sure more of the ribbon ink transfers to the label. However, if your ribbon is sticking or tearing during printing, the heat energy may be too high and should be reduced.

⚠ **CAUTION!**
Constantly printing at high energy levels may cause printer jams or other printing errors and may reduce the overall life of your printhead.

To adjust the print energy:

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Output Settings**.
3. Press OK to go to the submenu.
4. Press ▼ to scroll to **Print Energy**, then press OK.
5. Press ▲ or ▼ to increase or decrease the print energy setting.
6. When done, press ◀ twice to exit to the main menu.

Note: The selected print energy setting will stay in effect for all subsequent print jobs with the currently installed media. When new media is installed, the print energy level is reset to the default setting. The print energy level is also reset by rebooting the system.

Print Speed

Print speed lets you adjust the speed setting from 1 to 4 inches per second (ips). Optimal print speed settings are set automatically by the smart cell for the installed media and should only be changed if you are experiencing problems. For example, you can change print speed if you want to print graphics or other densely populated labels more slowly to ensure complete coverage.

To set the print speed:

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Output Settings**, then press OK.
3. Press ▼ to go to **Print Speed**, then press OK.
4. Press ▲ or ▼ to select the print speed you want (choose between 1- and 4-ips).
5. Press OK to accept the change and return to the submenu.
6. When done, press ◀ twice to exit to the main menu.

Tear/Cut Settings

These settings define when the printer expects to tear or cut labels in a print job. Depending on the selected cut settings, the printer advances the label to tear/cut between labels, at the end of the job, or never.

To set the tear/cut option:

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Output Settings**, then press OK.
3. Press ▼ to scroll to **Tear/Cut**, then press OK.
4. Press ▲ or ▼ to select the tear/cut option you want:
   - **Label** = between labels
   - **Job** = end of job
   - **Never** = do not tear/cut

Note: If your printer has a tearbar, the media advances to the tear position and waits for you to tear the media. If your printer has a cutter, the media advances to the selected position and is automatically cut and ejected.

5. Press OK to accept the change and return to the submenu
6. When done, press ◀ twice to exit to the main menu.

Mirror Print Settings

Use this procedure to print labels suitable for reading in a mirror or through the back of the label.

To set the mirror-image option:

> **Note:** Mirror print settings are in effect only during the current print job. When the print job is complete, the printer returns to the default setting.

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Output Settings**, then press OK.
3. Press ▼ to scroll to **Mirror Print**, then press OK.
4. Press ▲ or ▼ to select **On** or **Off**.
5. Press OK to accept the change.
6. When done, press ◀ twice to exit to the main menu.

Offset

Offset is a value that will move the image from its "nominal" position on the label slightly in one direction or another. Adjusting the offset is typically used to do a fine adjustment of the printed image on a die-cut label, or to move the image slightly closer or further from the edge of a continuous supply.

To set the offset:

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Output Settings**, then press OK.
3. Press ▼ to scroll to **Offset**, then press OK.
4. Press ▲ or ▼ to select **Horizontal** or **Vertical**, then press OK.
5. Press ▲ or ▼ to adjust the offset:
   - **Horizontal**: shifts the image (printed portion of the label) to the right or left (values ± 0.01 – 0.10).
   - **Vertical**: shifts the image (printed portion of the label) up or down (values ± 0.01 – 0.10).
6. Press OK to accept the change.
7. When done, press ◀ twice to exit to the main menu.

Printer Settings

The Printer Settings menu lets you set the default values for the printer. Defaults are common settings that are pre-assigned to make the system usable as soon as power is applied (e.g., set date and time to your local date and time). By changing the defaults, you can set the printer to your specific requirements.

Any defaults set here will stay in effect even when power is removed from the printer, and also during upgrades.

Note: If password protection has been implemented, you will need to enter a password to have access to these functions.

Language

To change language setting:

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Printer Settings**, then press OK.
3. Press ▼ to scroll to **Language**, then press OK.
4. Press ▲ or ▼ to scroll to the language you want.
5. Press OK to accept the change. It takes a few moments for the settings to take effect.
6. When done, press ◄ twice to exit to the main menu.

Units

To change unit setting:

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Printer Settings**, then press OK.
3. Press ▼ to scroll to **Units**, then press OK.
4. Press ▲ or ▼ to select **Inches** or **Millimeters**.
5. Press OK to accept the change.
6. When done, press ◄ twice to exit to the main menu.

Contrast

To set the contrast:

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Printer Settings**, then press OK.
3. Press ▼ to scroll to **Contrast**, then press OK.
4. Press ▲ or ▼ to increase or decrease the contrast setting. Contrast values are between 1 and 20.
5. Press OK to accept the change.
6. When done, press ◀ twice to exit to the main menu.

Standby Interval

The standby interval time determines when the navigation menu will go into standby mode after a period of inactivity. The standby interval turns off the backlight on the display.

To set the standby interval:

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Printer Settings**, then press OK.
3. Press ▼ to scroll to **Standby Interval**, then press OK.
4. Press ▲ or ▼ to choose between **1** to **4** minutes.
5. Press OK to accept the change.
6. When done, press ◀ twice to exit to the main menu.

Date & Time

The Date & Time menu lets you change the date and time format (i.e., 12-hour or 24-hour clock). Use the same steps to change any of the submenu options.

To change date & time options:

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Printer Settings**, then press OK.
3. Press ▼ to scroll to **Date & Time**, then press OK.
4. Press ▲ or ▼ to choose the option you want to change (i.e., Date, Time or Format), then press OK.
5. Use the ▲ or ▼ arrows to select and change the selection, then press OK.
6. Continue to select options you want to change, using the arrow keys and pressing OK to accept the changes.
7. When done, press ◄ repeatedly to exit to the main menu.

Connection

The printer has three ready modes:

- **Initializing**: The printer is ready, but the connection to the Brady Network Card (BNC) module has not yet been established.
- **Ready**: The printer is fully functional, the BNC module has responded and the printer is ready to print.
- **Ready - USB Only**: The printer cannot make a connection to the BNC module. All other functions are ready and the printer can be used. If the BNC module does not respond before the time-out, the following message will display: *Brady Network Card is not responding. USB printing is still available. See User's Manual for details.*

Note: To view the status of the BNC card and possible corrective actions, see *"Troubleshooting Brady Network Card" on page 2-47*.

Restore Defaults

Restore Defaults resets the printer to its factory settings. Once selected, it may take a few moments to restore the defaults.

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Printer Settings**, then press OK.
3. Press ▼ to scroll to **Restore Defaults**.
4. Press OK to accept.
5. When done, press ◀ twice to exit to the main menu.

Tools

Import

Import lets you add your own graphics or fonts for use on the printer.

Graphics

Use this procedure to add your own graphics for use in labels that you create on the printer.

Imported graphics must be in one of the following supported format(s) and imported from a USB flash drive.

- Bitmap (.bmp)
- Graphics Interchange Format (.gif)
- Joint Photographic Experts Group (.jpg)
- Portable Network Graphics (.png)

Note: This is a monochrome printer. Imported graphics should be black and white. Bitmap files (e.g., *.bmp, .jpg, etc.) are composed of pixels which may appear fuzzy and become distorted when they are resized.

To import a graphic:

1. Copy the desired graphic(s) to the root directory of your USB flash drive (not in a folder).
2. Connect the USB flash drive to any available USB port on the printer.
3. Press to go to the navigation menu.
4. Press ▲ or ▼ to scroll to **Tools**, then press OK.
5. Press ▼ to scroll to **Import**, then press OK.
6. Press ▼ to scroll to **Import Graphics**, then press OK.
7. Press ▼ to scroll to the desired USB flash drive, then press OK.
8. Press ▲ or ▼ to scroll through the list of graphics on your USB flash drive, then press OK to accept. The graphic will be imported to your printer.

   Note: Only one graphic can be imported at a time.

9. When done, press ◀ repeatedly to exit to the main menu.

Fonts

Use this procedure to add your own fonts for use in your labels. Only True-Type fonts can be imported.

The following True-Type fonts are resident on the printer:

- **Arial** (Normal, Bold, Italic)
- **Courier New** (Normal, Bold, Italic)
- **Tahoma** (Normal, Bold)
- **Times New Roman** (Normal, Bold, Italic)
- **Trebuchet MS** (Normal, Bold, Italic)
- **Verdana** (Normal, Bold, Italic)

To import a font:

1. Copy the font(s) you want into the root directory of your USB flash drive.
2. Connect the USB flash drive to any available USB port on the printer.
3. Press to go to the navigation menu.
4. Press ▲ or ▼ to scroll to **Tools**, then press OK.
5. Press ▼ to scroll to **Import**, then press OK.
6. Press ▼ to scroll to **Import Fonts**, then press OK..
7. Press ▼ to scroll to the desired USB flash drive, then press OK.
8. Press ▲ or ▼ to scroll through the list of fonts on your USB flash drive, then press OK to accept. The font will be imported to your printer.
9. When done, press ◀ repeatedly to exit to the main menu.

Note: If there is not enough space available to store the imported font(s), you will have to clear some space on the system before importing any new fonts. You can clear space by deleting saved graphics or fonts.

Delete

Use these procedures to delete any of your own graphics or fonts that you previously imported.

Note: You cannot delete any of the fonts that come with the printer.

Delete Graphics

To delete a graphic:

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Tools**, then press OK.
3. Press ▼ to scroll to **Delete**, then press OK.
4. Press ▲ or ▼ to select **Delete Graphics**, then press OK.
5. Press ▲ or ▼ to scroll through the list of imported graphics.
6. When the graphic you want to delete is highlighted, press OK.
7. Repeat steps 5 and 7 to delete any additional graphics.
8. When done, press ◀ repeatedly to exit to the main menu.

Delete Fonts

To delete a font:

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Tools**, then press OK.
3. Press ▼ to scroll to **Delete**, the press OK.
4. Press ▲ or ▼ to select **Delete Fonts**, then press OK.
5. Press ▲ or ▼ to scroll through the list of imported fonts.
6. When the font you want to delete is highlighted, press OK.
7. Repeat steps 5 and 6 to delete any additional fonts.
8. When done, press ◀ repeatedly to exit to the main menu.

Password Protection

Use this procedure to enable password protection or to change a password. Passwords can be enabled for the **Output Settings** or **Printer Settings** menus.

Enable Protection

To enable password protection:

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Tools**, then press OK.
3. Press ▼ to scroll to **Password**, then press OK.
4. At the prompt, enter the password by using a combination of arrow keys and buttons, then press OK.

   Note: The default password is DULR (down, up, left right).

5. Press OK to accept **Enable Protection**.
6. Press ▲ or ▼ to select either **Off** or **On**, then press OK.
7. When done, press ◀ repeatedly to exit to the main menu.

Change Password

When changing the password, be sure to write down the new key combination so that you don't forget it.

To change the password:

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Tools**, then press OK.
3. Press ▼ to scroll to **Password**, then press OK.
4. At the prompt, enter the password by using a combination of arrow keys and buttons, then press OK.
5. Press ▼ to select **Change Password**, then press OK.
6. At the prompt, enter a new password, then press OK.
7. At the prompt, confirm the new password, then press OK.

Note: Once the new password is confirmed, it becomes the password for accessing the *Output Settings* and *Printer Settings* menus if protection is "on." It is also the password required to access the *Password Protect* option.

8. Press ◀ repeatedly to exit to the main menu.

Upgrade from PC

Use this procedure to upgrade your printer to a new software or firmware version from a PC connected to the printer.

⚠ CAUTION!
Do not interrupt power on either the printer or PC during the upgrade process.

To upgrade:

1. Before installing, verify the following:
   - Upgrade Utility is available on your PC or via the Brady website (see *Technical Support and Registration* in this manual for more information).
   - USB cable is connected from your **BBP®33** to your PC.
   - Printer is **ON**.

   Note: If the printer driver has not been installed on your PC, you will be prompted to install the printer driver before continuing.
2. On the PC, launch the upgrade utility.
3. In the *Welcome* dialog, select **Next**.
4. In the *Select your printer* dialog, select your **BBP®33**.
5. In the *Version Confirmation* dialog, click **Start Upgrade**.

   Note: The printer restarts automatically after the upgrade is complete.
6. In the *Upgrade Complete* dialog, click **Finish**.

Upgrade from USB Flash Drive

Use this procedure to upgrade the firmware or software from a USB flash drive that contains the upgrade. The system will support only one USB device at a time.

To upgrade software from a USB flash drive:

CAUTION!
Do not interrupt power during an upgrade from a USB flash drive.

1. Copy the upgrade files to the root directory of your USB flash drive.
2. Connect the USB flash drive to any available USB port on the printer.
3. Press to go to the navigation menu.
4. Press ▲ or ▼ to scroll to **Tools**, then press OK.
5. Press ▼ to scroll to **Upgrade from USB**, then press OK. The printer automatically downloads and installs the firmware/software from the root directory of the USB flash drive.

Note: During the upgrade, the screen goes blank. It may take a few moments for the upgrade to complete. When done, the printer returns to the *Ready* menu.

Diagnostics

Some diagnostics are not available for users. Advanced diagnostics are password protected and to be used only with Brady Technical Support. The password is assigned by Brady.

Enter Diagnostic Mode

Use this procedure to access any of the diagnostics menus.

To enter diagnostics mode:

Note: A password is required to access the Advanced Diagnostics menus.

1. Press to go to the navigation menu.
2. Press ▲ or ▼ to scroll to **Tools**, the press OK to go to the submenu.
3. Press ▼ to scroll to **Diagnostics**, then press OK to go to the diagnostics list.
4. When done, press to exit the test.

Sensors

Print Engine Base (PEB) Settings

This procedure displays the PEB settings on the printer.

To view the PEB settings:

1. Access **Diagnostic** mode (see *"Enter Diagnostic Mode" on page 3-17*).
2. Press OK to select **Sensors**.
3. Press OK to select **PEB Settings**. The PEB settings display results for the following:

CutLine - Lead.	xxxx
Leading - Print	xxxx
Print - Diecut	xxxx
Diecut - Tapeout	xxxx
Rocker Steps	xxxx
Print - Center	xxxx

4. Press ◀ repeatedly to exit to the main menu or OK to return to the *PEB Settings* menu.

Sensor Conditions

This diagnostic detects the sensor conditions for ribbon motion, door, cutter, leading (edge), diecut, tapeout, wiper, center and tear bar.

Conditions are:

- **BL** (blocked)
- **Clos** (closed) or **Open**
- **Hom** (home position)
- **Eng** (engaged)
- **UnB** (unblocked)

To view the PEB settings:

1. Access **Diagnostic** mode (see *"Enter Diagnostic Mode" on page 3-17*).
2. Press ▼ to scroll to **Sensor Conditions**, then press OK. The sensor settings display results for the following:

RibbonMotion	BL
Door	Clos/Open
Cutter	Hom
Leading	BL
Diecut	BL
TapeOut	BL
Wiper	Eng
Center	BL
TearBar	UnB

3. Press ◀ repeatedly to exit to the main menu or OK to return to the *Sensor Conditions* menu.

Analog Readings

This diagnostic detects the analog readings for the diecut analog/digital converter, head voltage and thermistor temperature.

To view the analog readings:

1. Access **Diagnostic** mode (see *"Enter Diagnostic Mode" on page 3-17*).
2. Press ▼ to scroll to **Analog Readings**, then press OK. The readings display for the following:

Diecut A/D	xxxx
Head Voltage	xxxx
Thermistor	xxxx

3. Press ◀ repeatedly to exit to the main menu or OK to return to the *Analog Readings* menu.

Copy Error Logs

Printer Error Log

1. Insert a USB drive into any available port on the printer.
2. Access **Diagnostic** mode (see *"Enter Diagnostic Mode" on page 3-17*).
3. Press ▼ to go to **Copy Error Logs**, then press OK.
4. Press OK to select **Printer Error Log**, then press OK. The error log is written to the USB drive and the message *Successfully Copied Error Log* displays.

   Note: A message will display if no USB device is detected.

5. Press ◀ repeatedly to exit to the main menu.
6. To view the error log:
   a. Remove the USB drive from the printer and insert into your PC.
   b. In Windows Explorer, navigate to the USB drive and open the folder **BBP33 Error Logs**.
   c. Double-click the file **PRINTER_ERROR_LOG.txt** to view the log.

Script Error Log

1. Access **Diagnostic** mode (see *"Enter Diagnostic Mode" on page 3-17*).
2. Press ▼ to go to **Copy Error Logs**, then press OK.
3. Press ▼ to go to **Script Error Log**.
4. Press OK. The error log is written to the USB drive and the message *Successfully Copied BPL Error Log and Successfully Copied SM Error Log* displays.

   Note: A message will display if no USB device is detected.

5. Press ◀ repeatedly to exit to the main menu.
6. To view the error log:
   a. Remove the USB drive from the printer and insert into your PC.
   b. In Windows Explorer, navigate to the USB drive and open the folder **BBP33 Error Logs**.
   c. Double-click either of the following files to view the logs:
      - **BPL_ERROR_LOG.txt**
      - **SCRIPT_ERROR_LOG.txt**

USB Test

The USB test verifies that the USB ports are active. The tests can be performed with a flash drive or a type-B cable.

USB Flash Drive Test

To perform a USB test:

1. Access **Diagnostic** mode (see *"Enter Diagnostic Mode" on page 3-17*).
2. Press ▲ or ▼ to go to **USB Test**, then press OK to select the test.
3. Press OK to start the test.
4. Insert a USB flash drive into the **Lower USB** port. The display indicates *DSK2: attached*.
5. Remove the USB flash drive. The display indicates *DSK2: removed*.
6. Repeat steps 4 and 5 for the **Upper USB** port.
7. When done, press to exit the test.

USB Type-B Cable Test

To perform a USB test with a type-B cable:

1. Access **Diagnostic** mode (see *"Enter Diagnostic Mode" on page 3-17*).
2. Press ▲ or ▼ to go to **USB Test**, then press OK to select the test. The USB Test Status screen displays.
3. Insert a USB type-B cable from the **Lower Host** port to the **Function** port. The display indicates *LPT1: attached*.
4. Remove the USB type-B cable. The display indicates *LPT1: removed.*
5. Repeat Steps 3 and 4 for the **Upper Host** port.
6. When done, press to exit the test.

Keyboard Setup

This procedure configures the printer to use the selected regional USB keyboard.

To configure a keyboard:

1. Access **Diagnostic** mode (see *"Enter Diagnostic Mode" on page 3-17*).
2. Press ▲ or ▼ to go to **Keyboard Setup**, then press OK. The list of keyboard options displays.
3. Press ▲ or ▼ to select the regional configuration you want, then press OK. The printer is configured for use with the selected keyboard.
4. Press ◀ repeatedly to exit to the main menu.

Info

Lists the length of label media printed, number of cuts made and the last errors displayed.

To view printer information:

1. Access **Diagnostic** mode (see *"Enter Diagnostic Mode" on page 3-17*).
2. Press ▲ or ▼ to go to **Info**, then press OK.
3. Press ▲ or ▼ to select the information you want displayed:
   - **Printed**: Displays the number of ft (mm) of media printed to date.
   - **Cuts**: Displays the total number of tears/cuts made to date. (**Note**: The number actually reflects the number of times the printer has retracted the material for a new print.)
   - **Last Errors**: Displays the last 15 printer error message numbers.

     Press OK to display the error messages.

   Note: The errors displayed are for *actual* messages received. So, if you get the same error multiple times, the screen will display that error once for each occurrence (up to 15).
4. Press ◀ repeatedly to exit to the main menu.

Advanced Diagnostics

A password is required to enter the advanced diagnostic procedures. Contact your Brady Technical Support contact for help with these diagnostics.

USB Flash Drive

Use this procedure to download and print label scripts from a USB device. Label scripts can be created in any of the following programming languages:

- BPL (xml)
- ZPL
- jScript
- DPL

To download a label script:

1. Insert the USB flash drive into any available USB slot on the printer.
2. Press to go to the navigation menu.
3. Press ▼ to scroll to **USB Flash Drive**, then press OK.
4. Press OK to select the USB drive shown.
5. Press ▲ or ▼ to scroll through the list of available scripts.
6. Press OK to accept. The script will be loaded and printed. The menu returns to the list of available scripts when the label is printed.
7. When done printing, press ◀ repeatedly to exit to the main menu.

4 Maintenance

Printer Maintenance

Removing Power and Media from Printer

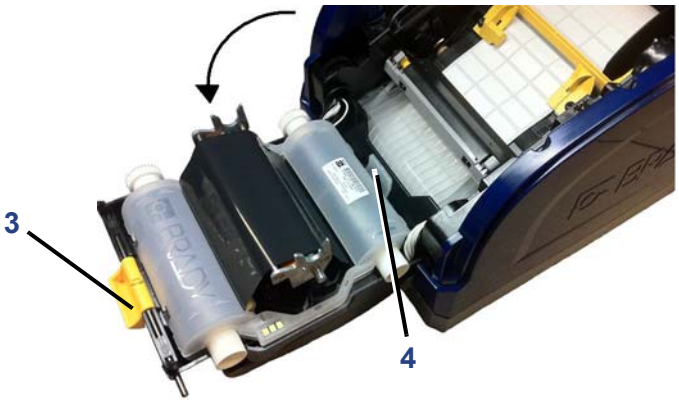
Before performing any maintenance procedure that involves opening the enclosure cover, you should remove the power and media from the printer.

To remove printer power and media:

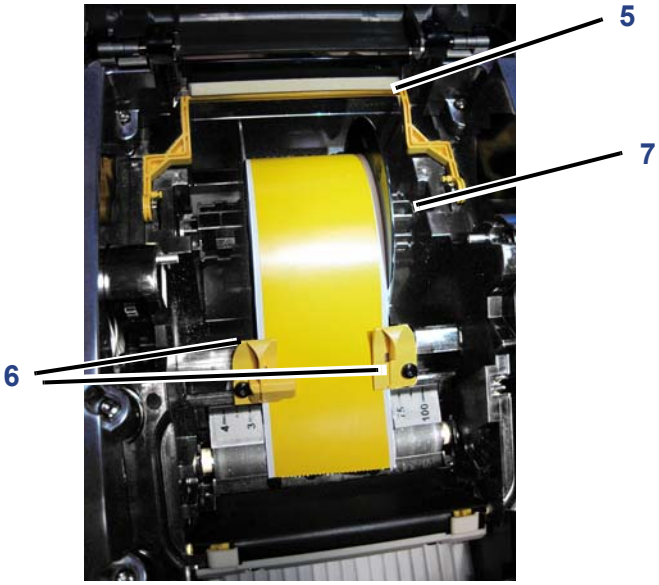
1. Remove the power plug [1] from the printer.

2. Open the enclosure cover.

3. Release the latch on the ribbon cover [3] and swing open.
4. Release the ribbon cartridge latch [4] and lift the ribbon cartridge up and out.



5. Move yellow media wiper [5] to the back.
6. Move yellow media guides [6] to full-open.
7. Remove media cartridge from the slots of media holder [7].



Cleaning the Printer

Remove Dust

Dust generated by media cuts can accumulate in the unit. If a significant amount of dust is built up, clean the unit using this procedure.

Materials Required

- Isopropyl Alcohol
- Compressed Air Bottle, purchased locally (e.g., HOSA AIR-464 Gear Duster)

To clean dust from the printer:

⚠ CAUTION!
Always wear safety glasses when using compressed air.

1. Remove power and media from the printer (see *"Removing Power and Media from Printer" on page 4-1*).
2. Using compressed air, spray all visible areas inside the printer to remove accumulated dust.
3. Using a cloth moistened with isopropyl alcohol, wipe any remaining dust from inside the printer.
4. Wipe exterior cover and frame of printer for dirt and residue.

Clean Printer and Keypad Residue

Whenever performing any maintenance on the printer, you should also clean any residue caused by the media.

Materials Required

- Compressed Air Bottle, purchased locally (e.g., HOSA AIR-464 Gear Duster)
- Lint-free Cloth
- Isopropyl Alcohol
- Safety Glasses

To clean residue from the printer:

CAUTION!
Always wear safety glasses when using compressed air.

1. Remove power and media from the printer (see *"Removing Power and Media from Printer" on page 4-1*).
2. With safety glasses on, spray compressed air on any parts of the printer that have built-up residue.

   Note: If compressed air is not available, use a lint-free cloth lightly moistened with isopropyl alcohol and wipe off residue.

3. If necessary, use a moistened, lint-free cloth to clean the keypad.
4. Replace the ribbon and tape.
5. Close all covers and plug in the power cord.

Clean LCD Screen

Materials Required

- Lint-free Cloth, non-abrasive
- Isopropyl Alcohol

  - or -

- Pre-moistened Cloth (appropriate for cleaning PC screens)

To clean the LCD screen:

Note: Normal cleaners with ammonia, soaps, or any acids can damage the screen. Use only a lint-free cloth dampened with isopropyl alchohol.

1. Lightly moisten a lint-free cloth with isopropyl alcohol, or use a pre-moistened cloth suitable for cleaning a PC screen.
2. Gently rub the damp cloth across the screen until all of the residue is removed.

Clean Tearbar

Note: This procedure is used only for models with a tearbar.

Clean the tearbar whenever there are signs of residue or sticky build up. Most of the sticky residue from the tape supply builds up on the underside of the flip-up tearbar. To remove this residue, you need to flip the tearbar up.

Note: When cleaning the tearbar, you should also clean the media and tearbar sensors (see *"Clean Sensors" on page 4-9*).

Materials Required

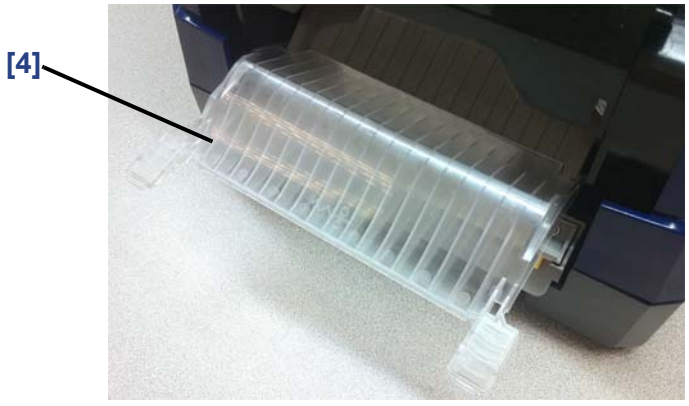
- Isopropyl Alcohol or Pre-moistened cloth (suitable for cleaning a PC screen)
- Kimwipes® or other non-abrasive cleaning cloths
- Cotton swabs

To clean the tearbar:

1. Remove power and media from the printer (see *R"Removing Power and Media from Printer" on page 4-1*).
2. Lightly moisten a lint-free cloth with isopropyl alcohol, or pre-moistened cloth.
3. Using isopropyl alcohol, moisten a cotton swab and clean all dust and accumulated residue from the tearbar and media sensors.

⚠ CAUTION!
Do not use isopropyl alcohol on the print head! *Using isopropyl on the print head will ruin the printer contact surface. Do not drip isopropyl alcohol on any other parts of the printer.*

4. Raise the exit-ramp cover [4] by lifting and pulling the ramp cover forward until it slides down the exit ramp, then lift it up to expose the tearbar release tabs. Do not completely remove the exit-ramp cover.



5. To lift up the tearbar, move the two yellow tearbar release tabs [5], on each side, toward the outer edge. The tearbar will automatically flip up.

6. Using isopropyl alcohol and Kimwipes®, clean the underside of the tearbar [6] to remove any built up adhesive.

Note: You may need to use pressure to remove all of the adhesive buildup.

7. Return the tearbar to operating position by rotating the tearbar down until it snaps into place.
8. Slide the exit-ramp cover back up into place until it stops. Press on the clear icons on either side of the exit ramp to snap the ramp securely into place.
9. Replace the ribbon and tape, if removed in step 1.
10. Close all covers and plug in the power cord.

Clean Auto-Cutter Blade

Note: This procedure is used only for models with an auto-cutter.

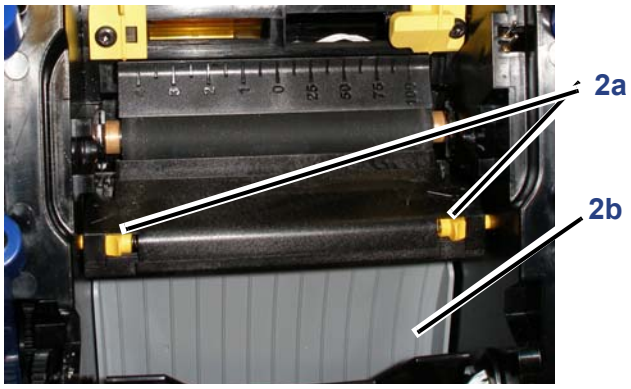
Note: When cleaning the cutter, you should also clean the media and cutter sensors (see *"Clean Sensors" on page 4-9*).

Materials Required

- Isopropyl Alcohol
- Cleaning Kit (Cat # B31-CCT), includes foam swabs, adhesive scraping tool, plastic bottle (not available in all regions)

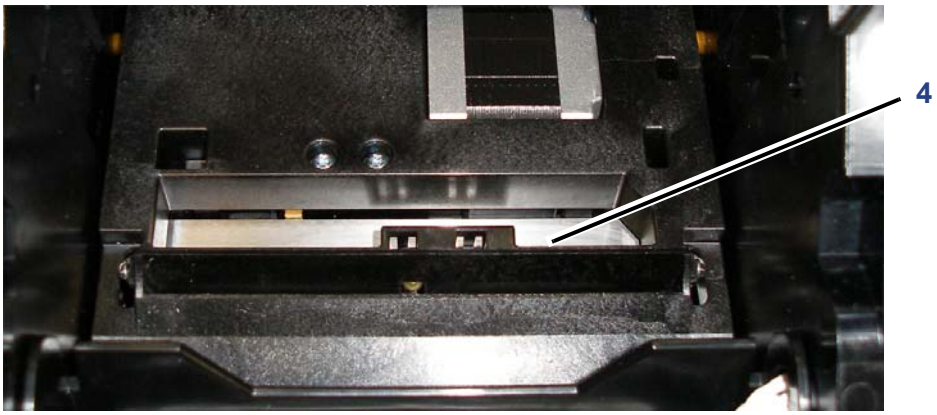
To clean the cutter:

1. Remove power and media from the printer.
2. Squeeze the two yellow cutter tabs [2a] to release the cutter. The cutter mechanism and exit chute [2b] will slide down behind the ribbon cover.



3. Fill the plastic bottle from the cleaning kit with isopropyl alcohol.

4. Clean metal cutting blade [4]:
   a. If the cutting blade shows significant residue, use the adhesive scraping tool from the cleaning kit, or other flat-edged tool, to gently scrape the reside off the cutting blade.
   b. Moisten one of the foam swabs from the cleaning kit with the alcohol. Do not allow the alcohol to drip from the swab.
   c. Clean cutting blade with moistened swab until all residue is removed.



5. Close the cutting blade by pushing up on the exit chute until the cutter tabs snap into place.

Note: You may need to hold ribbon cover up slightly to access the exit chute.

6. Replace the ribbon and tape.
7. Close all covers and plug in the power cord.

Clean Sensors

The sensors are located inside the printer and may be covered with dust that results from tearing or cutting the media. The media sensor is located under the yellow media guide.

Materials Required

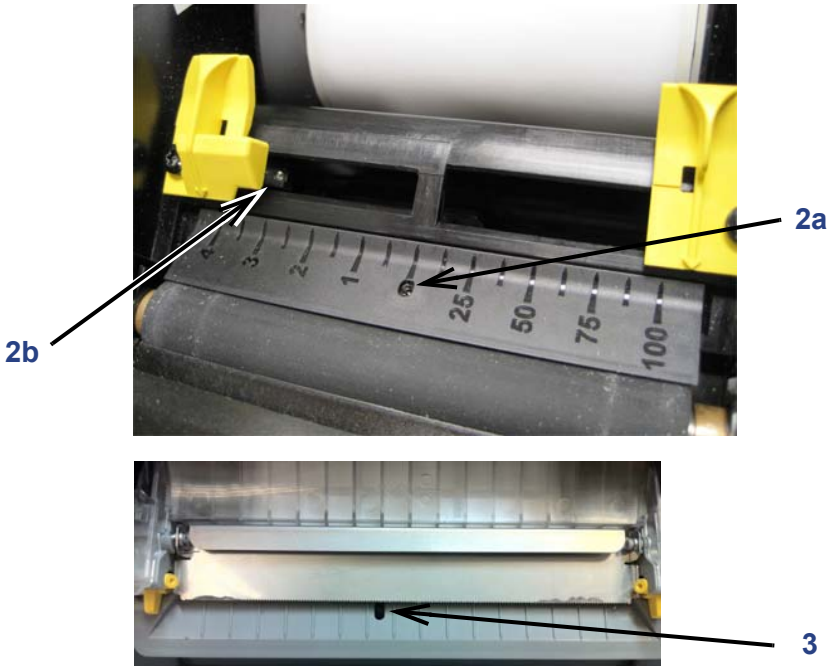
- Cleaning Kit (Cat # B31-CCT), includes foam swabs, adhesive scraping tool, plastic bottle (not available in all regions)
- Isopropyl Alcohol

To clean the sensors:

1. If necessary, remove power and media from the printer (see *"Removing Power and Media from Printer" on page 4-1*).
2. With the ribbon cover open, use a pre-moistened swab and thoroughly clean the surface of the sensors at the locations shown:

⚠ CAUTION!
Do not allow the alcohol to drip from the swab.

   a. Center die-cut sensor [2a]
   b. Tape out/die-cut sensors [2b]
   (**Note**: Sensor is located under the yellow media guide.)
3. For printers with a tearbar, close the ribbon cover and clean the media tearoff (exit) sensor [3].



Clean Tape Entrance

This procedure cleans the tape entrance, exit area and exit chute. The tape entrance can become sticky because of adhesive buildup

Note: Clean the exit area **after** cleaning the sensors (see *"Clean Sensors" on page 4-9*). The cleaning swab may be damaged when cleaning the exit area.

Materials Required

- Cleaning Kit (Cat # B31-CCT), includes foam swabs, adhesive scraping tool, plastic bottle (not available in all regions)
- Kimwipes® or other non-abrasive cloth
- Isopropyl Alcohol
- Compressed Air Bottle, purchased locally (e.g., HOSA AIR-464 Gear Duster)

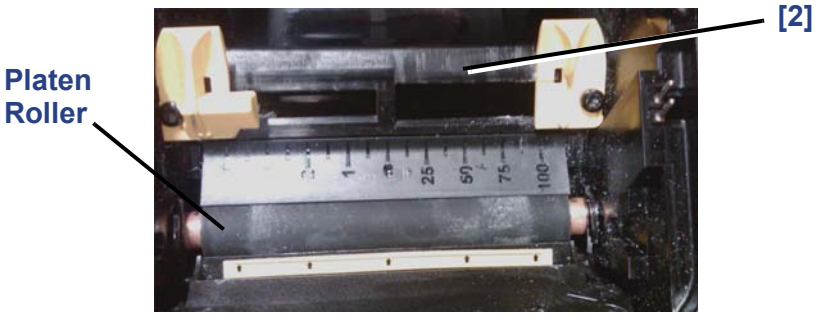
CAUTION!
Always wear safety glasses when using compressed air.

To clean the tape entrance:

1. Lightly moisten a lint-free cloth with isopropyl alcohol.

CAUTION!
Do not use isopropyl alcohol on the print head! *Isopropyl alcohol may permanently damage the print head.*

2. At the top of the tape entrance, rub along entire length of the tape entrance to remove the adhesive residue [2]. If necessary, use the adhesive scraping tool or other flat-edged tool, covered with the Kimwipe, to push against the tape entrance to clean all of the residue from the entrance.
3. Wet a cotton swab with isopropyl alcohol and thoroughly clean along the entire media entrance area.



CAUTION!
When cleaning, don't pinch or gouge the platen roller. Use only compressed air .

4. Use compressed air to clean off dust on the entire printer, including the platen roller.

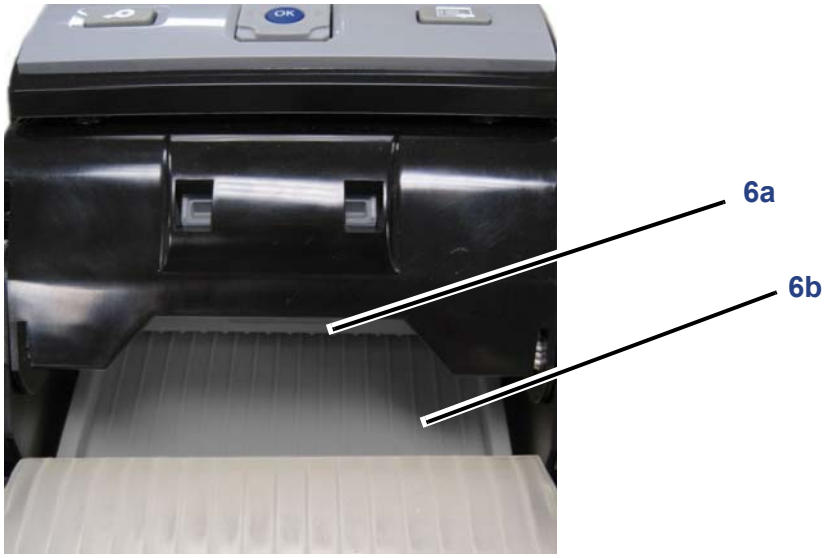
Clean Exit Area (Tearbar only)

To clean the exit chute:

1. If necessary, remove power and media from the printer (see *"Removing Power and Media from Printer" on page 4-1*).
2. Open the enclosure cover.
3. Close the ribbon cover (it does not need to snap into place).
4. Remove the exit-ramp cover [4] by lifting and pulling the ramp cover forward until it slides down the exit ramp. Do not completely remove the exit-ramp cover.

5. Use compressed air to remove debris from the slots in the exit ramp.
6. Use a swab moistened with isopropyl alcohol to clean the slots on the exit chute entrance [6a] and the exit chute ramp [6b].

Note: To reach all areas of the exit chute, you may need to tilt the printer up.



7. Replace the ribbon and tape.
8. Close all covers and plug in the power cord.

Cleaning the Cutter Blade Exit Area (Auto Cutter only)

This procedure cleans the cutter blade exit area and the exit chute.

Note: You should clean the exit area after cleaning the cutter blade and sensors. The cleaning swab may be damaged when cleaning the exit area.

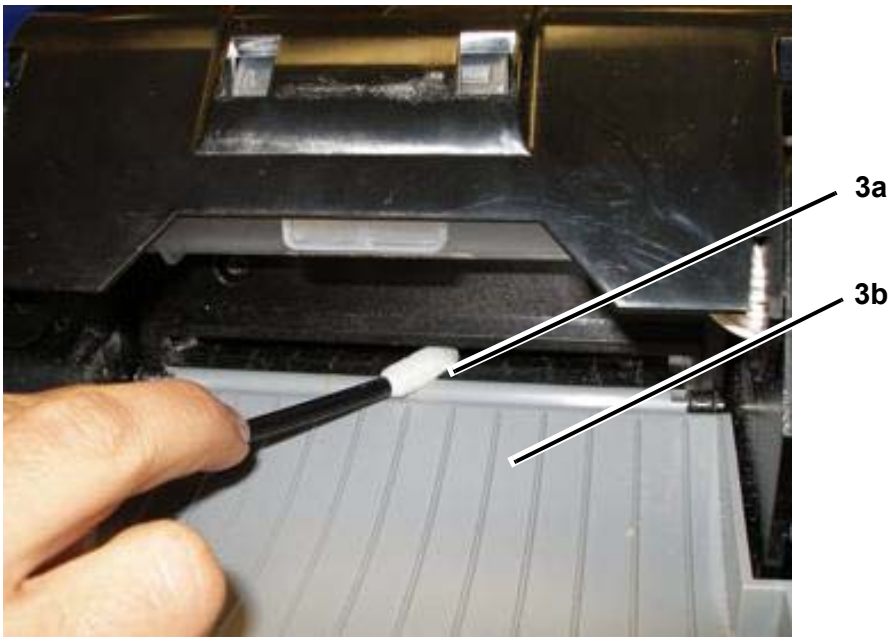
Materials Required

- Cleaning Kit (Cat # B31-CCT), includes foam swabs, adhesive scraping tool, plastic bottle (not available in all regions)
- Isopropyl Alcohol

To clean the exit chute:

1. If necessary, remove power and media from the printer (see *"Removing Power and Media from Printer" on page 4-1*).
2. Close the ribbon cover. It does not need to snap into place.
3. Using a swab pre-moistened with alcohol, clean the exit chute entrance [3a] and exit chute ramp [3b].

Note: To reach all areas of the exit chute, you can close the enclosure cover and tilt the printer up.



4. Replace the ribbon and tape.
5. Close covers and plug in the power cord.

Clean Printhead

Materials Required

- Cleaning Kit (Cat # B31-CCT), includes foam swabs, adhesive scraping tool, plastic bottle (not available in all regions)
- Isopropyl Alcohol

CAUTION!
Use only the materials supplied in the cleaning kit. Using other materials may permanently damage the printhead.

To clean the printhead:

1. Remove power and media from the printer (see *"Removing Power and Media from Printer" on page 4-1*).
2. Fill the plastic bottle from the cleaning kit with isopropyl alcohol.

CAUTION!
***Do not rub the swab over the bronze-colored area of the printhead**. This may permanently damage the printhead.*

3. Moisten one of the foam swabs from the cleaning kit with the alcohol and gently rub across the **green and black area only** of the printhead [3].

4. Replace the ribbon and tape.
5. Close all covers and plug in the power cord.

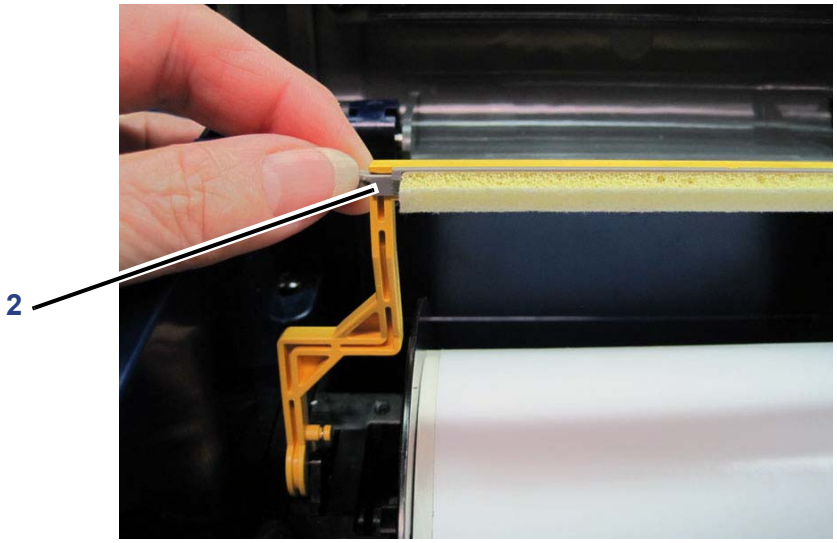
Replacing the Media Wiper

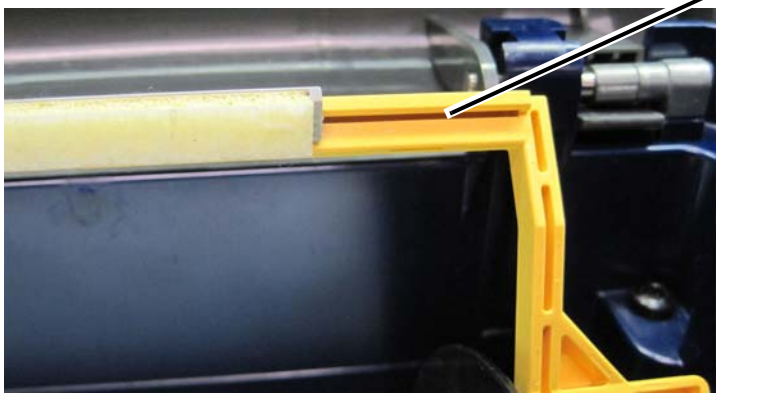
Materials Required

- Media Wiper (5 pack) Kit, Cat #B31-WIPER (sold separately)

To replace the media wiper:

1. Remove power and media from the printer (see *"Removing Power and Media from Printer" on page 4-1*).
2. LIft and hold the wiper arm while grasping the tab of the wiper insert [2].
3. Pull the tab slightly forward and then slide the wiper insert out of the wiper arm.
4. To replace the wiper, insert the lip of the wiper insert into the slot [4] of the wiper arm and slide in until the tab snaps into place.





5. Replace the ribbon and tape.
6. Close all covers and plug in the power cord.

Clearing Jams

To clear jams from the printer:

1. Remove all damaged ribbon and/or media from the printer.
2. Check that there is no damage to the print head, tear-off bar, sensors, or any other parts.
3. Check whether any cleaning is needed. If cleaning is required, see *"Cleaning the Printer" on page 4-3* for details.
4. Reload ribbon and media and clear all error messages.

Remove Tearbar Ramp Cover (Tearbar only)

If media gets jammed, you may need to remove the tearbar ramp cover to correct the jam.

To remove the tearbar ramp cover:

1. Lift and pull the ramp cover forward until it slides down the exit ramp. The ramp cover should not be completely removed.
2. Clear the jam of any trapped media.
3. Slide the ramp cover back up into place until it snaps into place. Press your finger/thumb on the finger icons to press the ramp into place.

Replacing/Adjust Media End Caps

In the unlikely even that your tape roll comes apart, contact Tech Support for assistance in replacing or adjusting the end caps. See *"Technical Support and Registration" on page xxii* for details.

5 Troubleshooting

Messages

The **BBP®33** *Sign & Label Printer* contains error messages that describe what action you should take to resolve any messages or errors.

Messages indicate the problem for the task being performed and also provide a possible corrective action.

Printing Errors

Problem	Cause	Corrective Action
Printer not ready. Error: 15	The ribbon cover is open or the cutter is not in operating position.	Close and latch ribbon cover or move cutter to operational position.
Printer Error. Error: 16	Ribbon cover was opened during printing.	Close ribbon cover.
Printer Error Error: 21	Media wiper is not engaged.	Engage media wiper arm.
Printer Error Error: 22	Media wiper is engaged but should not be used on this media.	Disengage the media wiper arm.
Poor print quality. Error: 1024	Printhead needs cleaning.	Clean printhead with isopropyl alcohol and swab.

Hardware Errors

Problem	Cause	Corrective Action
Printer too warm. Print job canceled. Error: 18	The printhead is too hot.	The printhead has reached maximum operating temperature. Allow printer to cool down approximately 10 minutes, then re-initiate the print job.
Printer too cold. Print job canceled. Error: 20	The printhead has not reached operating temperature.	Normal operating range is between 50-104°F (10-40°C). Allow printer to warm up to operating temperature before printing.
Media jam. Print job canceled. Errors: 45, 80, 85, 87	Media is jammed in the printer [45]; Media is in the media guides, but not detected by the cutter home sensor [80]; Media is in the home position but not detected by the media out notch sensor [85]; Media is in the printer but not detected by the leading edge sensor [87].	Clear media path and reinstall media, then re-initiate the print job. If error persists, contact Technical Support.
Cut quality poor. Error: 1025	Cutter needs cleaning because of adhesive build up on the cutter.	• Unlatch cutter and push down away from roller. • Remove residue from blades with flat-edged tool, then clean with isopropyl alcohol. • Close cutter and printer. • From exit chute, swab back of blades with isopropyl alcohol.
Residue on labels. Error: 1027	Media wiper needs to be replaced.	• Swing media wiper arm to upright position. • Slide wiper out of wiper arm toward left side of the printer. • Slide replacement wiper into slot on wiper arm.
Poor media detection on the printer, or print registration problems.	Media end cap not centered on spindle.	Adjust the center position of the media roll.
Check Printer.	BNC module is not responding. USB printing is still available.	Check the status of the BNC module or use the printer without a BNC connection.

Media Errors

Problem	Cause	Corrective Action
Error reading media memory cell. Reload or replace media. Errors: 48, 49, 50, 51, 52	Printer cannot read the media memory cell: media validation failed [48]; cannot read media cell [49]; cannot read memory CRC [50]; cell is wrong version [51]; media counter shows no media remaining [52].	Replace media. If problem persists, contact Technical support.
Media out. Error: 53	Media sensor shows end of media. Print job canceled.	Verify media guides are positioned correctly at the edge of the media or replace roll if empty.
Media is jammed. Error: 54	Media is jammed somewhere in the printer. Print job canceled.	Clear the media path and re-initiate the print job.
Media not detected. Error: 55	Media is not loaded correctly.	Reload media: 1. Insert media. 2. Feed media between guides to middle of black roller. 3. Verify guides are positioned to media edge.

Ribbon Errors

Problem	Cause	Corrective Action
Ribbon Out. Error: 58	The ribbon ran out or broke during the print job.	Replace ribbon and close inside printer cover. Re-initiate the print job.
Ribbon too narrow. Error: 62	The installed ribbon is narrower than the installed media.	Replace the ribbon cartridge with wider ribbon. - or - Replace the media with a width that matches the ribbon.
Error reading ribbon memory cell. Errors: 64, 65, 66, 67, 68	The printer cannot read the ribbon memory cell: memory cell code incorrect [64], cannot read cell [65], data in cell is corrupted [66], cell is wrong version [67], ribbon counter shows no ribbon remaining [68].	Replace the ribbon. If problem persists, contact Technical Support.
Media mismatch. Error: 69	The installed ribbon is not recommended for use with the current media.	Replace the ribbon with a type that is compatible with the media. - or - Replace the media with a type that is compatible with the ribbon.

A Supported Scripting Languages

The following tables describe the ZPL, jScript and DPL commands that are supported by the **BBP®33** *Sign & Label Printer*.

Note: For Brady Print Language (BPL) commands, see the BPL Programmer's Guide that is included on your Product CD.

ZPL Supported Commands

Job Control

Job Control Descriptions	ZPL®
Command Character 1	^
Command Character 2	~
Comment Line	^FX
Power On Reset	~JR
Label Home	^LH
Label Length	^LL
Set Unit of Measurement	^MU
Mirror Image	^PM
Print Orientation (degrees) [Label Rotation]	^PO
Print Quantity	^PQ
Print Rate	^PR
Print Start	~PS
Print Width	^PW
Serialization Data	^SN
Set Date and Time	^ST
Tear off adjust	~TA
Print Config Label	~WC
Start Job	^XA
End Job	^XZ

Objects

Drawing Objects

Drawing Objects Descriptions	ZPL® Command
Rectangle	^GB
Circle	^GC
Diagonal Line	^GD
Ellipse	^GE
Download graphic file to printer	^GF

Text Commands

Text Description	ZPL® Command
Set Text Font (A-Z, 0-9)	^A
Set Default Font	^CF
Assign Character Identifier to Built-in Font	^CW

Barcodes

Barcode Descriptions	ZPL® Command
ANSI Codabar	^BK
Aztec 1	^B0
Aztec 2	^BO
Codablock	^BB
Code 11	^B1
Code 39	^B3
Code 49	^B4
Code 93	^BA
Code 128	^BC
Data Matrix	^BX
EAN/JAN-8	^B8
EAN/JAN-13	^BE
EAN/UPC Extension	^BS
Field Default	^BY
Industrial 2 of 5	^BI
Interleaved 2 of 5	^B2
Logmars	^BL
Micro-PDF417	^BF
MSI	^BM
PDF417	^B7
Planet Code	^B5
Plessey	^BP
UPC-A	^BU
UPC-E	^B9
UPS MaxiCode	^BD
QR Code	^BQ
RSS	^BR
Standard 2 of 5	^BJ
TLC39	^BT
POSTNET	^BZ

Field Data

Field Data Descriptions	ZPL® Command
Field Data	^FD
Origin (set upper left corner relative to label home)	^FO
Field Parameter (set vertical/reverse for font field)	^FP
Field Reverse Print (white over black or black over white)	^FR
Field Separator (end of field definition)	^FS
Field Typeset (sets field position, relative to home)	^FT
Set field orientation	^FW

jScript Supported Commands

Job Control

Job Control Descriptions	jScript
Start Job	J
End Job (see Number of Labels)	--
Set Label Size (width and length)	S
Measuring Unit (mm, inches, dots)	m
Printer Orientation (degrees) [Label Rotation]	O
Reverse Print	R
Mirror Image	M
Cut	C
Number of Labels / End Job	A

Objects

Drawing Objects

Drawing Objects Descriptions	jScript
Draw Object	G
Rectangle	R
Line	L
Circle	C
Ellipse	C

Text

Text Description	jScript
Start text object	T
Select internal Font by number	F

Barcodes

Barcode Descriptions	jScript
Bar Code	B
Aztec	AZTEC
Codabar A / F	CODABAR
Codablock F	CODEABLOCKF
Code 128 A / B / C	CODE128
Code 39	CODE39
Code 93	CODE93
Data Matrix	DATAMATRIX
EAN-8	EAN8
EAN-13	EAN13
EAN-128	EAN128
FIM	FIM
HIBC	HIBC
Interleaved 2 of 5	2OF5INTERLEAVED
JAN 8	JAN8
JAN 13	JAN13
Micro-PDF417	MICRO
MSI Plessey	MSI
PDF417	PDF417
POSTNET	POSTNET
QR Code	QRCODE
UPC-A	UPCA
UPC-E	UPCE
UPS MaxiCode	UPS MAXICODE

Field Data

Setting Field Data Descriptions	jScript
Global Object Offset (move all objects x,y distance)	D
Comments (not sent to printer)	;

Printer Status

Printer Status Descriptions	jScript
Heat/Speed Settings	H
Retrieve and Print Image	I

DPL Supported Commands

Note: These commands conform Revision D, 2001 Datamax Programmer's Manual

Commands

Commands Descriptions	DPL
Set Cut Amount By *(Command* **must** *be issued and a cut will not occur until job is done.)*	:
Set Continuous paper Length	<STX>c
Input Image Data (*Only value "B" is supported for "f" parameter.)*	<STX>I
Enter Label-Formating Command	<STX>L
Set Printer Metric	<STX>m
Set Printer Inches	<STX>n
Print Time and Date	<STX>T Label Format Mode
Set Format Attribute (*Only 2, "Transparent Mode" parameter is supported.*)	A
Set Column Offset Amount (*The maximum BMP33 offset is .1", if a value larger is entered, it will be set to .1"*)	C
Set Cut by amount (*See ":" command*)	c
Terminate Label formatting Mode and Print Label	E
Heat Setting	H
Select Mirror Mode	M
Set Metric Mode	m
Set Inches Mode	n
Set Print Speed (*Only values A,C,E,G, 1 - w ips respectively are supported. If an unSupported value is entered, it will default to 2 ips.*)	P
Set Quantity of Labels to Print	Q
Set Row Offset Amount (*See "C" command*)	R

Barcodes

Barcode Descriptions	DPL
Barcode Command Structure	b [bb] c d eee ffff gggg jj...j where: a = Rotation (1, 2, 3, 4) b [bb] = Barcode c = Wide Bar, (always fixed value of 1)* d = Narrow Bar (1-9)* eee = Symbol Height (001 - 999) ffff = Row (0000 - 9999) gggg = Column jj...j = Data (valid 255-character ASCII string plus termination) * The combination of c and d = 2:1, 3:1, 4:1.
Code 3 of 9	A
UPC-A	B
Interleaved 2 of 5	D
Code 128	E
EAN-13	F
EAN-8	G
HBIC	H
Codabar	I
Interleaved 2 of 5 with Modulo 10 Checksum	J
Plessey	K
Code 93	O
Postnet	P
UCC/EAN Code 128	Q
UPS MaxiCode	U
PDF-417	z
DataMatrix	W1C

Objects

Object Descriptions	DPL
Draw Box (*Parameters bbbb and ssss indicate line thickness of box and must be the same.*)	1X1100000970013b0093004200020002 *where*: 1 = x = 1 = Fixed Value 1 = Fixed Value eee = Fixed Value ffff = Row gggg = Column b = Box hhhh = Box Horizontal Width vvvv = Box Vertical Height bbbb = Box Bottom & Top Thickness ssss = Box Side Thickness
Draw Box (*Parameters bbbb and ssss indicate line thickness of box and must be the same.*)	1X1100000970013B093042002002 *where*: 1 = x = 1 = Fixed Value 1 = Fixed Value eee = Fixed Value ffff = Row gggg = Column B = Box hhhh = Box Horizontal Width vvvv = Box Vertical Height bbbb = Box Bottom & Top Thickness ssss = Box Side Thickness
Draw Line	1X1100000970013l00930042 *where*: 1 = x = 1 = Fixed Value 1 = Fixed Value eee = Fixed Value ffff = Row gggg = Column l = Line Drawing hhhh = Horizontal Width of Line vvvv = Vertical Height of Line

Object Descriptions	DPL
Draw Line	1X1100000970013L093042 *where*: 1 = x = 1 = Fixed Value 1 = Fixed Value eee = Fixed Value ffff = Row gggg = Column L = Line Drawing hhhh = Horizontal Width of Line vvvv = Vertical Height of Line
Text (font) *Only some True Type fonts are supported. All bitmap and scalable fonts will default to Arial so there will be output on the label (exception is CG Times Family font, which will be mapped to Times New Roman). An entry will be made into the error log.* *The CG Times Family font is specified by the sA0-sAz Parameter in the label definition command.*	
Circle *A circle is created by defining by its center point and radius.*	1 X 11 ppp rrrr cccc C ppp bbbb rrrr <CR> *where*: 1 = Rotation (must be 1) X = Graphic Field 1 = Multiplier (must be 1) ppp = fill pattern (none, solid) rrrr = Row of Center Point cccc = Column of Center Point C = Circle ID (fixed value) ppp = Fixed Value bbbb = Fixed Value rrrr = Radius of Circle <>CR> = Termination Character

Object Descriptions	DPL
Polygon *Polygons are created by defining the positions of corners, specifying a number of data points that represent the vertices of the object, which can range from a simple line (two points), or a triangle (three points), to any free-form outline.*	1 X 11 ppp rrrr cccc P ppp bbbb rrrr cccc rrrr cccc ... <CR> *where*: 1 = Rotation (must be 1) 001 = Fixed Value X = Graphic field ID 0001 = Fixed Value 1 = Multiplier (must be 1) rrrr = Row of Point 2 1 = Multiplier (must be 1) cccc = Column of Point 2 ppp = Fill Pattern # rrrr = Row of Point 3 rrrr = Row of Point 1 cccc = Column of Point 3 cccc = Column of Point 1 … = Additional Points P = Polygon ID (Fixed Value) <CR> = Termination Character

© 2012 Brady Worldwide, Inc. All Rights Reserved.